# PRAXIS TRIGONOMETRIAE LOGARITHMICAE

Peter Crüger

Digitized by Google

*Viris genuinæ Matheseos*
*amantissimis,*

NOBILI ET AMPLISSIMO
DOMINO
JOHANNI ERNESTO
SCHRÖERO,
DANTISCANÆ REIP. METROPOlitanæ Senatori, exquisitâ eruditione
sapientiâq; clarissimo;

&

SPECTABILI AC PRUDENTISSIMO DOMINO
JOHANNI HECKERO,
Ejusdem Reipubl. Palæopolitanæ
Scabino, literatâ integritate ornatissimo,

*LOGARITHMICVM HOC*
*MANVALE*

sacrum esto.

## AD LECTOREM.

QUantum sit, Lector Philomathes, calculi Trigonometrici compendium, evitatâ prolixâ multiplicatione ac divisione Quæsitum apprehendere solâ additione & subtractione, non est ut quicquam ediſſeram, cum res ipsa loquatur. Id verò ante annos circiter 20. singulari beneficio divino studiis Mathematicis datum est, Inventore Illustri JOH. NEPERO, Barone Scoto, Viro vel ob id unicum (si cætera deessent) immortali laude dignissimo, excogitatis ab eo numeris illis mirabilibus, qui *Logarithmi* dicuntur, hoc est, *numeri proportionum*, sive proportionalium vicem obeuntes, aut *rationum Indices*, aut, interprete Kepplero, *incommunicabilium proportionum communes mensuræ*. Edidit Illustris Inventor eos Canone, quem sic vocavit, mirifico ad singula quadrantis minuta compositos Anno primùm 1614. Edimburgi, non additâ tunc compositionis ratione, donec, ut ipse ait, eruditorum his de numeris judicium cognosceret. Mirum autem, quàm gratus hic mirificus Canon statim fuerit eruditis Mathematicis. Itaq; CL. BENJAMIN URSINUS eum formâ minori (qualis hæc nostra est.) ad minorem etiam Radium, cum compendiosis Præceptis, recusum publicavit Anno 1618. Vir etiam excelsissimi ingenii JOH. KEPPLERUS, triennio pòst, Logarithmorum demonstrationem & constructionem molitus est, eorumq; chiliadem ad numeros absolutos mille ordine naturali succedentes construxit, & ab eo tempore Logarithmos in novas Tabulas Rudolphinas, propediem tunc edendas, invexit. Interim secuta est altera Canonis mirifici editio Lugduni Galliæ Anno 1620. cum ratione constructionis, â benevolâ manu Roberti Neperi, primi inventoris, jam tum vitâ functi, Filii. Hac editione prælucente non antè quievit URSINUS quàm pertinaci labore novum ejusmodi *Logarithmorum magnum Canonem* ad dena minuta secunda & Radium 8. cifrarum construxit, cumque absoluta Trigonometria, tam vulgari quam Logarithmica, magno bono edidit Anno 1625. Opus æstimationis immensæ, si vitia typographica (quæ commis-

sa sunt in eo longè plura quam indicat eorum catalogus) excipias. Atq; hæ recensitæ hactenus tabulæ logarithmicæ omnes præsupponunt Radii sive maximi Tabulæ numeri logarithmum o: logarithmum verò initii Tabulæ, infinitum.

Verùm NEPERUS triennio post editionem Logarithmorum primam in Epistola dedicatoria suæ Rhabdologiæ, mentionem jam fecerat alterius formæ Logarithmorum à se inventæ quæ multò præstantior esset priori: pollicitus etiam eorum elaborationem, quam commendârit Viro præstantissimo HENRICO BRIGGIO Professori Londinensi: constructionis etiam fundamenta paterna publicavit Robertus Neperus, subjuncta editioni secundæ Canonis mirifici suprà memoratæ. Opus autem promissum cum viginti & unâ chiliadib. Logarithmorum ad numeros totidem absolutos bono publico edidit Londini BRIGGIUS: post BRIGGIUM chiliades reliquas explevit & integras centum, una cum Sinuum ac Tangentium Logarithmis, ad eandem formam constructis, copioso volumine ad grandem numero Radium publicavit Anno 1628. Vir exercitatissimus & laboriosissimus ADRIANUS VLACCUS Belga. Successit huic operi post quinquennium Trigonometria Britannica, æque grandi volumine, continens, præter aurea præcepta & inventa Logarithmica, 1. Logarithmos ad graduum quadrantis non scrupula sexagesima sed particulas centesimas, 2. Logarithmos alios ad quadrantis dena secunda, 3. Chiliades Logarithmorum 20. ad totidem numeros absolutos. Hæc forma logarithmorum posterior à Nepero inventa & ab his Viris elaborata præsupponit Unitatis logarithmum o: inde facto logarithmorum continuo incremento: sic ut logarithm⁹ denarii fiat 1000. &c. logarithmus centenarii 2000. &c. logarithmus millenarii 3000. &c. myriadis 4000. &c. & ita in infinitum.

Habet hæc forma posterior id commodi inter cætera, ut calculatore mliberet à respectu signorum cossicorum + & − quæ in priori sunt: id quod minùs exercitati vice grandis lucri habere possint. Præterea numeri cujuscunq;, qui saltè non superet numerũ 100000. logarithmus in volumine Vlacci præsto est. Hic

Hic itaq; reddenda videtur ratio, 1. Cur post tot præstantiss. Virorũ opera consummata paucis hisce pagellis imperfectiorib. (ut quarum Tabula prima vix 10. chiliadas logarithmorum continet, nec adjunctas habet proximorum differentias) ausim prodire in publicũ. 2. Cur formam logarithmorum elegerim priorem præposteriori, qua tamen illa prior cum signis suis cossicis antiquari posse videatur. Ad utrumq; tribus respondeo verbis. Primò libellum hunc formavi, ut esset Manuale meorum discipulorum & familiarium usibus; quod tamen hortatu multorum concedo nunc usibus publicis, cum certum sit, non cuivis esse commodum, occupari spacioſis voluminibus. Rariſſimè extrà Astronomiam lateraTriangulorum planorum dantur aut inveniuntur numero myriadem excedente. Si tamen aliquando tanta, docetur & hìc ratio convenientium logarithmorum expedita: Cum logarithmorum differentiæ non difficulter apprehendantur. Deinde formam logarithmorum priorem elegi propterea, ut hujus Manualis Tabula secunda (cui reliquas obsecundare necesse est) simul foret accommodata Tabulis Astronomicis Rudolphinis in calculo prosthaphæreseon Orbis, Latitudinum, parallaxiũ &c (Lansbergianas non moror, ut quæ nec ipſæ morantur Logarithmos aut calculũ prosthaphereseó orbis &c. Trigonometricum, contentæ barbito veteri Excessus & scrupulorum proportionalium.) Neq; enim Rudolphinas deprehendo mereri, ut è manibus Astronomorum excutiantur, ſubstitutis Lansbergianis. Quod ad signa, cossica + & −, non est eorum Arithmetica tam morosa quam vulgo æstimatur, velut infrà suo loco ostenditur. Hæc igitur est instituti mei ratio.

Cæterum universam Trigonometriam theoreticam vel etiam fundamenta logarithmica hic non inculco (quærantur hæc in Nepero & Urſino) contentus manuali portatili inclusisse Præcepta practica, quæ sic spero me tradidisse, ne quid restet, quod logarithmorũ amantẽ absterreat aut remoretur. Hoc unum autẽ horror juniores, ne, compendio Logarithmico famâ cognito vel primis labris delibato, dediguentur addiscere theoriam Trigonometriæ Veteris: cum è regulis calculi veteris ritè percipiantur & jucundiùs tractentur regulæ logarithmicæ. Cogitent illud Platonicum huic vestibulo inscriptum: μηδεὶς ἀγεωμέτρητος εἰσίτω.

PRÆ-

# PRÆCOGNITA DE LOGARITHMORUM NATURA, DISPOSITIONE ac tractatione.

LOgarithmi sunt numeri artificiales, loco vulgarium proportionalium substituti, ad evitandam in proportionum regula multiplicationem & divisionem.

Axioma generale praxeos hoc est: *A summa Logarithmorum secundi & tertii subtractus logarithmus primi relinquit logarithmum quarti quæsiti.*

Dentur tres numeri 256. 2375. 184. & quæratur quartus proportionalis. E tabula logarithmorum prima logarithmus secundi est 143758.
logarithmus tertii 399540.

Summa. 543298.
logarithmus primi est 366516. Subt:

176782. (1707.

*De fractionibus postea dicemus.*

Logarithmorum in tabulas digestorum ea est natura, ut ab infinito sensim decrescant in nihilum adeoq; primus sive minimus Tabulæ numerus habeat logarithmum maximum, ultimus sive maximus habeat logarithmum 0.

Hinc in Tabula logarithmorum Neperiana, ad singulos canonis Trigonometrici sinus constructâ, Logarithmus sinus totius est 0: omnium autem nu-

merorum canonicorũ sinu toto minorum logarithmi sunt majores nihilo, notanturq; signo cossico + (id est plus) vel nullo, unde tales logarithmi vocantur *Abundantes* sive *Positivi*. Omnium contrà numerorum canonicorum sinu Toto majorum logarithmi sunt nihilo minores, & notantur signo cossico — (id est minus) Unde tales logarithmi vocantur *Defectivi* sive *Privativi*.

Consequenter omnium præter Totum Sinuũ, ut & omnium semiquadrantis prioris Tangentium (præter earum ultimam) Logarithmi sunt Abundantes sive Positivi : Tangentis 45 completorum graduum logarithmus est 0 : omnium autem semiquadrantis posterioris Tangentium, ut & omnium omninò Secantium, Logarithmi sunt Privativi sive Defectivi.

Hinc etiam primæ nostræ Tabulæ logarithmi, quoniam à logarithmo maximo decrescunt ad finem Tabulæ in 0, omnes sunt Abundantes sive Positivi.

Tabulæ Logarithmicæ calculo Trigonometrico servientes duæ sunt principales : prima numerorũ absolutorum ordine naturali succedentium, pro lineis rectis sive Triangulorum Planorum lateribus ; altera graduum & scrupulorum pro angulis tam planorum quam Sphæricorum, ut & pro sphæricorum lateribus.

*Etsi enim, quod Visinus vult, etiam per sinus logarithmi numerorum absolutorum acquiri possunt, tamen acquisitio ista non est adeò promta. Præstat loco sinuum adhibere Tabulam peculiarem, quæ numeri absoluti logarithmum exhibeat paratum.*

His duabus adjunctæ sunt aliæ duæ, minus quidem principales & tantum partiales, sed in Astronomia magni usus ad latera Triangulorum Sphæricorum exilia.

*Loga-*

*Logarithmi & mesologarithmi addena secunda primi gradus magnas habent differentias, ut ex Vrsini opere patet: ac proinde molesta est partis proportionalis intermediorum secundorum inquisitio. Visum itaq; fuit primi gradus Logarithmos extendere ad singula secunda: id quod pro Latitudinibus Planetarum & parallaxibus est expeditissimum. Contrà primi gradus Antilogarithmi, etiam ad dena secunda ab Vrsino supputati, minimas & interdum nullas habent inter se differentias, ac proinde Antilogarithmorum secundis intermediis competentium inquisitio sæpè non datur satis præcisa. Proinde CL. Baraschius, magni Keppleri gener, primi gradus Antilogarithmos extendit ad bina secunda: cujus propterea Tabulam, paulò tamen commodiùs dispositam, subjungere libuit.*

## Tabularum nostrarum dispositio hæc est.

In Prima, quæ comprehenditur octernionibus A, B, & C, Numerorum vulgarium centuriæ completæ occupant paginarum Frontes, notæ suprà centurias reliquæ (*compositos* vocant Arithmetici) margines siniſtros. Cumq; unius paginæ margo omnes intra r. & roo. numeros complecti nequeat, singulis centuriis attributæ sunt paginæ ternæ, ad instar Tabulæ Tetragonicæ Magini & Berneggeri, exceptâ paginâ ultimâ, quæ centurias myriadis ultimas seorsim exhibet. Area verò Tabulæ continet logarithmos competentes, eosq; omnes Abundantes.

In Secunda, quæ comprehenditur octernionibus 6. sequentibus, paginæ binæ complectuntur singulos gradus & graduum scrupula: paginæ singulæ margines habent geminos. Margo siniſter habet scrupula prima gradui suprà notato adhærentia, deorsum ordine succedentia: Margo dexter habet scrupula prima gradui infrà notato adhærentia, sursum ordine ascendentia. Marginis autem alterutrius gradus & scrupula sunt marginis alterius graduum & scrupulorum complementa ad

Quadrantem, ut è vulgari sinuum &c. Tabula perspicuum est.

Areæ verò paginarum continent logarithmos tribus columnis distinctos. Extrema quæq; columna (dextra vel sinistra) continet logarithmos marginis proximi gradibus & scrupulis competentes, & è regione extrema columna altera logarithmos complementi, seu, ut hodie usitatè vocantur, *Antilogarithmos*. Media verò columna continet numeros logarithmicos, qui appellantur *Mesologarithmi* sive *Differentiales*: qui si sint graduum & scrupulorum marginis sinistri, sunt Abundantes & adsciscunt signum +: sin fuerint graduum & scrupulorum marginis dextri, sunt Defectivi & adsciscunt signum —; id quod hæc signa suprà notata indicant.

Differentiales *hi logarithmici numeri vocantur, quia nihil aliud sunt quam Differentia respondentium utrinq; logarithmorum.*

Appositæ insuper heic sunt omnibus omnium columellarum numeris differentiæ, pro expedita partis proport: inquisitione: Mesologarithmis quidem omnibus pro denis secundis, logarithmis autem pro 10. secundis quidem usq; ad gradum completum 67. Inde, quoniam exiguæ fiunt, usq; ad finem quadrantis, appositæ sunt integræ.

In Tabula Tertia paginæ binæ exhibent in fronte scrupula primi gradus Prima, marginibus suis sinistris scrupula adhærentia Secunda singula: in Area logarithmos competentes: in calce particulas logarithmis detrahendas, pro habendis eorundem Secundorum Mesologarithmis.

In Quarta paginæ singulæ præbent fronte Scrupula itidem prima, marginibus sinistris scrupula adhærentia secunda bina, numero paria: Areâ, competentes

petentes Antilogarithmos: calce, binorum proximorum Antilogg. Semidifferentias, pro habendis promtè imparium secundorum Antilogarithmis.

Talis, inquam, est Tabularum Dispositio: ipsorum vero logarithmorum tractatio generalis tribus constat membris; Excerptione, operatione arithmeticâ, & Quæsiti per eos determinatione.

*In omnibus autem hisce Tabulis non omnium & singulorum numerorum logarithmicorum initiales notæ sunt expressæ, præterquam in cellularum principiis, & ubi mutantur: quod in excerptione observandum.*

# EXCERPTIO LOGARITHMORUM.

## I. TABULÆ PRIMÆ

1. Dati numeri vulgaris sive absoluti integri, myriade sive numero 10000. minoris, logarithmum excerpere.

*Dati numeri centurias quære in fronte, reliquas ejus notas in margine sinistro: communis angulus, ut in antiqua sinuum (vel quadratorum) Tabula, exhibet logarithmum quæsitum.*

Ut numeri dati 3854. centuria 3800 in fronte & 54 in margine ostendit in area (sub titulo frontali 3800. & è regione marginali 54.) logarithmum competentem 95347. Non enim negligendæ sunt notæ initiales in principiis cellarum circumstantibus: Velut paulò ante monitum est.

2. Dati numeri vulgaris integri cum adhærentibus decalceptis sive scrupulis denariis (ne tamē characteres complicati excedant myriadem) competentem logarithmum excerpere.

Cum

*Cum numero integrorum & scrupulorum complicato, ac si essent characteres unius numeri integri, fiat excerptio, ut antè.*

Sit numeri integri 534, & 7 decaleptorum, excerpendus logarithmus. Complicetur integer cum adhærentibus decaleptis, ut fiat quasi totus integer 5347. Hujus priori modo inquisitus logarithmus est 62603.

/ //

Sic numeri 64.3.4. (*sive* 6434.) logarithmus excerpitur 44097. *In ejusmodi vero casibus ante operationem Arithmeticâ attendendus est & alter numerus proportionalis, ut suo loco dicetur.* Hinc licet etiam

## 3. Datis numeri solis decaleptis sive scrupulis denariis logarithmum eorum exhibere.

Ne tamen decalepta extendantur ultra Quarta. Et ociosa plerumq; est ulterior subtilitas. Sunto igitur

/ // /// ////

4 6 8 3. Dissimulatis apicibus fiat numerus instar integri 4683. Cujus logarithmus 75863.

## 4. Dati numeri absoluti integri myriade majoris logarithmum excerpere debitum.

*In ipso quidem Triangulorum (planorum) calculo latera rarò occurrunt tanta exceptis Triangulis Planetarum prosthaphæreticis, quorum tamen latera vel laterum logarithmi in Tabulis singulorum planetarum præstò dantur. In aliis Triangulis si tantum, si fortè, latus sese offerat, posset ad calculum adhiberi ejus semissis vel triens vel quadrans &c. Et absoluto calculo Quotus duplicari, triplicari &c. Sed ne dati numeri dimidiatio vel tripartitio sit molesta (præsertim numero sic non divisibili) sic agatur:*

*Datus numerus curtetur unâ vel pluribus notis finalibus, donec reliqua sint myriade minores. Tum istarum reliquarum excerpatur logarithmus: & abscissæ notæ vel nota (nisi fuerint meræ cifræ sive 0.00 &c. multiplicentur in differentiam logarithmi excerpti & proximè minoris*

notis sive sequentis: productum vicissim tot notis finalibus, quot à numero dato resecabantur, curtetur: reliquæ sunt pars proportionalis, semper ab excerpto logarithmo subtrahenda, ut evadat logarithmus limitatus sive quæsitus.

| | | | | |
|---|---|---|---|---|
| Nam si à numero dato resectæ fuerunt notæ finales | unà, duæ, tres, 4 5 6 &c. | sicut se habent | 10 100 1000 10000 100000 1000000 | ad differentiam logarithmorum. |

excerpti & proximè minoris: ita notæ resectæ se habent ad partem propor: notis istis competentem.

Detur primùm absolutus 564200. Curtandus hic est notis finalibus duabus, ut curtatus evadat 5642. Hujus logarithmus 57234 est logarithmus quæsitus: non enim nisi meræ 00. resectæ sunt.

Detur deinde 5642348. curtatus (tribus notis finalibus) fit 5642: cujus logarithmus 57234. Differentia à log. proximè sequente sive minore est 18. qui multipl: in abscissas 348 producit 6254: abjice vicissim tres finales, & restat pars prop. 6. subtrahenda à log. excerpto. ita relinquitur genuinus 57228. *Atq; hæc methodus etsi videtur extra oleas vagari, tamen certis cautelis in calculo proportionum eò redigitur, ut exhibeat verum quæsitum, velut suo loco ostendetur.*

## 5. Dati numeri absoluti integri cum adhærentibus scrupulis denariis, ita ut vel integer solus, vel cum scrupulis complicatus, myriadem excedat, genuinum definire logarithmum.

*Si integer solus myriade minor sit, excerpatur primùm ejus logarithmus: deinde per differentiam logarithmi excerpti & proximè sequentis quæratur pars proportionalis scrupulis adhærentibus debita, non secus ac regula proximè*

præce-

*præcedente: hæc semper subtracta à logarithmo excerpto relinquit logarithmum quæsitum.*

Quæratur logarithmus numeri 1265. 45. Numero integro 1265 competit logarithmus 206752. Differentia ejus & proxime sequentis est 79. quæ multipl. in scrupula adhærentia 45. producit 3555. rejice finales duas, remanet pars prop. 35 subtr. Logarithmus igitur limitatus fit 206717.

*Si integer ipse jam excedat myriadem, totus cum adhærentibus scrupulis complicetur, ut sint omnes characteres velut simplicis numeri integri: ac tum complicatus curtetur, curtatiq; logarithmus per partem prop. abscissu debitam limitetur, ut suprà factum.*

Quæratur logarithmus Numeri 21265. 45. Complicetur, ut fiat quasi integer 2126545. Curtati 2126 (tres enim finales resecandæ, ut restet minus myriade) logarithmus est 154834. Diff. à sequente est 47, quæ multipl. in resectas 545 producit 25615. Pars itaq; prop. est 26. (*idem enim hîc, quod in sinibus aut aliis numeris Canonicis, observandum, quotiescunq; rejectorum character siniſterrimus quinario major est*) & logarithmus limitatus 154808.

*Desiderabit hic lector vice versâ regulas, Dati logarithmi numerum vulgarem explorandi: sed has inveniet membro tertio, quo docetur Determinatio Quæsiti.*

# II. TABULÆ SECUNDÆ ET RELIQUARUM.

## Dati arcus aut anguli numerum Logarithmicum excerpere.

*Si datus arcus aut angulus constet tantum gradibus & scrupulis sexagenariis primis; Numerus graduum in fronte & numerus scrupulorum in margine siniſtro, vel numerus graduum in calce & scrupulorum in margine dextro, ostendunt in columella proximè adjacente quæsitum*

*tum logarithmum; in columella extrema altera Antilogarithmum sive logarithmum complementi: in columella intermedia mesologarithmum, cum signo ad marginem daterum graduum & scrupulorum vergente, h. e. + si datus graduum numerus nondum complet 45 gr. Sed — si datus graduum numerus 45 gr. superat.*

Satis perspicua & facilia sunt hæc illi, qui Trigonometriæ vulgaris non penitus est rudis. Detur arcus aut angulus 18 gr. 34 scrup. Logarithmus ejus invenitur 114442, logarithmus complementi sive antilogarithmus 5345, mesologarithmus, 109097 +. Antimesologarithmus 109097 — Idem enim est Mesologarithmus dati arcus & complementi, mutatis tantum signis cossicis + & —.

2. *Sin gradibus & scrupulis primis adhæreant etiam secunda, quæratur per differentiam appositam pars proportionalis, more aliarum Tabularum vulgato. Sed tamen hæc pars proportionalis in logarithmis semper est subtractoria, id est, semper logarithmo scrupulis primis competenti subtrahitur; in mesologarithmis etiam priorum 45 graduum est subtractoria, in posterioribus autem adjectoria.*

° ′ ″

Detur arcus 34. 25. 42. Quæratur ejus logarithmus, mesologarithmus, & antilogarithmus. Gradibus & scrupp: primis competit logarithmus 57056. Diff. ejus & sequentis pro 10 secundis est 7. Si ergo 10 secundis competunt 7, 42 secundis competit p. proport. 29. subtr. logarithmus igitur limitatus est 57027. Mesologarithmus gradibus & scrupulis primis competens est 37813 +. Diff. pro 10 secundis est 10. igitur pars proportionalis etiam est 42. subtr. Et Mesologarithmus limitatus evadit 37771 +. Antilogarithmus scrupulis primis competens est 19263 (*cum enim adsint secunda, complementum non est integrorum primorum* 35. *sed tantum* 34.) Differentia 10 secundis competens est 3. igitur 42 secundis competit pars proportionalis 13. subtr. Et Antilogarithmus limitatus erit 19250.

Quæ-

Quæratur autem Mesologarithmus arcus 54. 47. 52. Mesolog. graduum & scrupp. primorum est 34834—. Diff. pro 1 Q secundis est 10. itaq; p. prop. scrupp. 52 secundis competens est 52. Add. Mesologarithmus igitur limitatus est 34886—.

3. *Quod si datus arcus non superet integrum gradum, partis proportionalis inquisitione non est opus. In Tabula enim Tertia quærantur scrupula prima in fronte, & secunda in sinistro margine, communis concursus exhibet competentem logarithmum: Sin quæratur mesologarithmus, numerus in calce columella (scrupp. primis attributa) detractus ab ejusdem arcus logarithmo relinquit verum mesologarithmum, semper abundantem sive cum signo +; Si deniq; desideretur Antilogarithmus, adeatur eodem modo Tabula Quarta; & si numerus datorum scrupp: secundorum sit impar, semidifferentia columella Primorum subjecta semper Antilogarithmo datorum secundorum parium addita constituit Antilogarithmum quæsitum. Et hoc in hac quidem Tabula usq; ad arcum scrupp: primorum 40 supra integrum gradum.*

Exempli gratiâ quæratur logarithmus &c. competens 39. 35. In Tabula Tertia logarithmus statim reperitur 446418. Pro mesologarithmo reperiuntur in calce 6. â logarithmo subtrahenda: ita mesologarithmus ejusdem arcus est 446412+. Deniq; in Tabula Quarta Antilogarithmus 39. 34. competens reperitur 6,624. cum semidiff. in calce 5. Add. Proinde Antilogarithmus 39. 35. competens est 6629.

*Observandum, paginam Antilogarithmorum primam continere antilogarithmos ad Radium non 8 cifrarum, ut pagina reliqua, sed 9 cifr: imò primam columellam ad 10. Proinde si logarithmorum unus quidem excerpatur è pagina*

*gina prima, alter ex una reliquarum, attendatur genuina subordinatio, ut scilicet punctum interstinctionis unum directè subordinetur alteri. Et potest ante subordinatorum additionem vel subtractionem antilogarithmus prima paginæ à fine decurtari, ut post punctum tot illi restent notæ, quot antilogarithmo alteri.*

## Tantum de Logarithmorum Excerptione: sequuntur

# LOGARITHMORUM SPECIES ARITHMETICÆ.

Species Arithmeticæ Logarithmicæ tantùm duæ sunt, Additio & Subtractio.

Utraq; si numeri sint è sola Tabula prima, perficitur more vulgari. Fit tamen interdum ut offeratur subtrahendus major reliquo, à quo subtrahi debeat. Ac tum huic addatur aliquis horum numerorum (quos Adscititios appellare libet) quò subtractio fieri possit: 230258. 460517. 690775. Subtractione deinde peractâ quid residuo fieri debeat, infrà docebitur.

☞ E. g. à logarithmo 23236. sit subtrahendus 102176. Adde priori 230258. (hæc enim sufficiunt) à summa 253494 jam subtrahe 102176, restant 151318.

*Quid propriè sint hi numeri adscititii, & unde nascantur, docet ex indicio Neperi Vrsinus lib. 2. Trigonometr: c. 15. pag. 222.*

Sin depromti sint numeri vel è sola Tabula secunda, vel partim è secunda, partim è prima; tam Additio quam Subtractio attendenda est Cossica signis + & −.

Regulæ Additionis & Subtractionis hæ sunt.

# ADDERE

*Logarithmos signorum* { *Similium, est summam eorum cum signo communi* / *dissimilium, est differentiam eorum cum signo majoris* } *exhibere.*

Exempla similium:

5304+ 2567—
7635+ 6723—
12939+ 9290—

Exempla dissimilium:

5304— 2567+
7635+ 6723—
2331+ 3156—

# SUBTRAHERE

*Logarithmos signorum* { *similium* { *minorem à majori* / *majorem à minori* } *est differentiam eorum cum signo* { *communi* / *contrario* } *exhibere.* }

*Logarithmos signorum* { *dissimilium* { *abundantem à defectivo* / *defectivum ab abund.* } *est summam eorum cum signo* { — / + } *exhibere.* }

Exempla similium:

7635+ 5304+
Subtr. 5304+ S. 7635+
2331+ 2331—

Exempla dissimilium

5304— 7635+
S. 7635+ S. 5304—
12939— 12939+

*In inquirendo tamen latere alicujus Trianguli plani si logarithmus subtrahendus sit major logarithmo signi similis, præstat huic addere aliquem numerorum supradictorum 230258. 460517. ne scilicet aliquando post subtractionem relinquatur logarithmus Defectivus, quæ ostendendo è Tabula Prima lateri ineptus est. Qua de re & infrà in proportionibus Trigonometricis.*

Restat

Restat nunc horum Præcognitorum Membrum Tertium, nempe

## DETERMINATIO QUÆSITI.

Quæritur in Trigonometria vel angulus vel latus. Et in Triangulis quidem sphæricis tam latera quam anguli determinantur gradibus & scrupulis. Proinde operatione per logarithmos peractâ nullo negocio Quæsita inveniuntur. Nimirum

*Inventus ex operatione logarithmus aut Mesologarithmus quæratur in Tabula secundæ convenientis tituli columella: qui si adsit exactus, margine debito ostendit scrupula prima; & supra vel infra hæc scrupula, gradus.*

Margo debitus est, logarithmo quidem proximus antilogarithmo remotissimus, mesologarithmo ille, ad quem inclinat signum ex operatione logarithmica inventum. E. g. sit inventus ex operatione logarithmus 26311, erit ejus arcus 50 gr. 14. scr. Sed si debeat haberi pro antilogarithmo, erit ejus arcus 39 gr. 46 scr. Sic si quæratur arcus respondens mesologarithmo 59966+, erit is 28 gr. 46 scr. quia signum + est â parte sinistra & ita inclinat ad marg. sinistrum: at si fuerit 59966—, erit ejus arcus 61 gr. 14 scr. quia signum — inclinat ad marginem dextrum.

*Si non inveniatur exactus, in logarithmis quidem differentia ejus â logarithmo proximè majori (majori inquam, non minori) ante completum gradum 67 multiplicetur per 10, post gradum 67 per 60, productumq; dividatur per differentiam logarithmorum proximè majoris & minoris in tabula appositam; Quotus ostendit scrupula secunda, Primis logarithmo majori respondentibus apponenda: In Mesologarithmis priorum 45 graduum eadem est secundorum inquisitio; sed in posterioribus 45 gradibus quæratur differentia Mesologarithmi nostri â*

*mesolog. proximè minori, & inventa deinde, ut antè, strupula secunda apponantur minutiis primis Mesologarithmo minori respondentibus.*

Sit logarithmus 92225, quæratur ejus arcus. Logarithmus proximè major in Tabula secunda est 92277 & hic competit 23 gr. 25 scr. Differentia 10 scrupp. competens ibidem asscripta est 11. Differentia logarithmorum mei & prox. majoris est 52. Colligo: 11 dant scrupp. secunda 10, quot 52? f. 47. Igitur arcus quæsitus est 23 gr. 25 scr. 47. sec.

Sit deinde logarithmus 3556 & quæratur ejus arcus. Logarithmo proximè majori respondent 74 gr. 48 scr. Differentia à logarithmo scrupuli proximè sequentis asscripta est 8. Hæc sc. competit 60 secundis, quot ergo secunda requirit differentia logarithmi nostri & proximè majoris, quæ est 5? resp. 37. Arcus igitur quæsitus 74 gr. 48 scrupp. 37 sec.

Sit Mesologarithmus 62550+ Quis ejus arcus? Mesologarithmus proximè major (inclinat enim signum + versus marginem sinistrum, adeoq; versus gradus & scrupula semiquadrantis prioris) 62605+ ostendit 28 gr. 8 scrupp. Differentia hujus mesolog. & mei est 55. Differentia mesologarithmorum proximè majoris & minoris asscripta est 12 pro 10 secundis. 12-10-55 f. 46. fere. Arcus igitur quæsitus est 28 gr. 8 scr. 46 sec.

Quæratur deniq; arcus mesologarithmi 83862— Mesologarithmus proximè minor (respicit enim signum —gradus & scrupula semiquadrantis posterioris) est 83842— competens 66 gr. 37 scr. Differentia hujus Mesolog. & mei est 20. Diff. Mesologarithmorum proximè minoris & majoris est 13 pro 10 secundis.

13—10 sec. —20 f. 15 sec. Itaq; arcus quæsitus integer est 66 gr. 37 scrupp. 15 sec.

*Quod si logarithmus aut mesologarithmus cadat inter logarithmos aut mesologarithmos primi gradus non completi; quaratur in Tabula tertia: ibi enim sive exactus sive saltem proximus ostendit respondentia scrupp: prima in fronte, & secunda in margine sinistro.*

Sit

Sit logarithmus 493867. Hic versatur intra logarithmos 24 scr. & 25 sec. primi gradus non completi. Quæratur igitur in Tabula tertia, in columna tituli 24 Prim. Proximus illi est 493848, & ostendit 24 scr. 38 sec.

Sit Mesologarithmus 413032. Versatur hic intra logarith. 55 scr. & 56. sec. Quæsitus itaq; in Tabula tertia primùm proximus illi Logarithmus 413044 minuatur numero in calce ejus columellæ subjuncto 13, ut restet mesologarithmus 413031. Subtrahantur etiã in sequenti logarithmo eadem 13, ut restet mesologarithmus 413001. Priori noster quam proximus est, ideoq; ipsi competunt 55 scr. prima 16. sec.

In Triangulis autem Planis latera sunt lineæ rectæ, definiendæ numeris absolutis per logarithmos Tabulâ primâ comprehensos. Quæ ipsa Laterum inquisitio pluribus eget regulis & cautelis. Nempe, cum ad Planorum Trigonometriam necessariò requiratur cognitio saltem unius lateris,

1. *Si istud datum Latus constitit meris numeris integris absq; ullis scrupulis denariis, neq; major fuit numero* 10000, *nec in operatione arithmetica accessit additio alicujus numeri assititii suprà indicatorum*, 230258, 460517 *&c. Logarithmus proveniens est ipse log. Lateris quæsiti. Qui si in Tabula prima reperitur exactus, centenarius in fronte columellæ, & compositus in margine, ostendunt ipsum Latus quæsitum. Ut, logarithmi* 37482 *numerus absolutus est* 6874. *Sin autem non invenitur exactus, indicium est, numerum absolutum lateris habere etiam scrupula sive decalepta, quæ more Tabulis vulgaribus usitato colliguntur. Nam ut differentia logarithmorum proximè majoris & minoris est ad* 10 *scrupula prima (vel* 100 *secunda, vel* 1000 *tertia &c) sic differentia logarithmi proximè majoris & mei est ad scrupula proportionalia.*

Detur logarithmus 45686 & quæratur ejus numerus vulgaris. Logarithmus proximè major 45696 dat 6332,

Differentia à sequente est 16. Diff. à meo est 10. Si igitur decalepta cupio tantùm prima, colligo: 16—10 scrup. —10. Si cupio etiam secunda, colligo: 16— 100. —10 Si cupio tertia, colligo 16—1000—10. & ita deinceps. Cupiam autem prima & secunda; itaq; proveniunt (regulâ proportionum peracta) 6 scr. 2 sec. cum semisse. Numerus igitur absolutus exactus evadit 6332. 6/2//

2. *Si latus datum constitit meris decaleptis, logarithmi etiã provenientis numeri absoluti (sive latus quæsitum) est decaleptorum, ita ut ultima ejus nota censenda sit similis ultimæ numeri sive lateris dati.*

/ // /// ////

Exempli gratia, si latus datum fuisset 3 4 5 6, & ex operatione proveniret logarithmus 96822 (quot fit si angulus dato lateri oppos: fit 64 gr. 10 min. & angulus quæsito lateri oppositus 81 gr. 30 scr.) ostendit is quidem latus quæsitũ 3797 cum semisse, sed non partium integrarum, sed tantum scrupulorum, ita ut ultima nota 7 sit Quartorum, quotorum scilicet est ultima nota lateris dati, ac proinde (cum logarithmus 96822 non extet in Tabula exactus) fractio adhærens (p. part. prop. inquisita) non est nisi 5 Quintorum.

3. *Sic si latus datum fuit partium quidem integrarum sed tamen cum adherentibus decaleptis; lateris etiam quæsiti per logarithmum provenientem excerpti nota ultima similis censeatur ultima lateris dati.*

/ // ///

Ut si latus datum fuisset partium 34. 5 6, & ex operatione proveniret logarithmus 96822, ostendens 37972, ultima hujus numeri sive lateris quæsiti nota 7 est scrupulorum secundorum, quemadmodum ultima nota lateris dati: ac proinde latus quæsitum censeatur partium

// / // ///

37. 97 cum semisse, sive 9 7 5.

4. *Si datum latus fuit numeri (vel integri vel cum decaleptis) myriadem excedentis, logarithmus proveniens ostendet latus quæsitum tot notis finalibus mutilum, quot*

notis

notis finalibus latus datum ante operationem fuit curtatum. Proinde

*Si à latere dato ante operationem fuerint*

| | | | | |
|---|---|---|---|---|
| resecta nota | una, | Sicut se habet | 10 | sic se habet |
| | duæ, | differentia | 100 | |
| | tres, | logarithm. prox. | 1000 | |
| | 4 | | 10000 | |
| | 5 | majoris & | 100000 | |
| | 6 &c. | minoris ad | 1000000 | |

*differentia logarithmi provenientis & proximè majoris ad notas finales lateri mutilo ad ejus integrationem apponendas. Hoc est, differentia provenientis & proximè majoris, tot cifris, quot notæ finales desiderantur, aucta dividatur in differentiam logg. proximè majoris & minoris; Quotus dabit notas desideratas. Consequenter si logarithmus proveniens exactè reperiatur in Tabula, numero quem ostendit absoluto apponantur tot cifræ sive o, quot à latere dato resectæ fuerant notæ finales, sive resectæ fuerint cifræ sive significativæ.*

Exempli gratia, si latus datum fuisset 362500, ita ut pro logarithmo ejus excerpendo resecari oportuerit finales duas, siqs post operationem proveniret logarithmus 152556; extat hic in Tabula exactè & respondet numero absoluto 2175 tanquam lateri quæsito, sed finalibus duabus mutilo. Apponantur igitur 00 (pro numero sc. resectarum à latere dato) ut latus quæsitum fiat integrum 217500.

Si latus datum sit 345600, curtandum itidem notis finalib. duabus, & proveniret logarithmus 968223 proximè major in tabula est 96836, ostendens numerum absolutum 3797 tanquam latus quæsitum, sed notis duabus (pro numero resectarum à latere dato) mutilū. Proinde hæ duæ notæ acquirantur hoc modo:

| | | |
|---|---|---|
| Log. prox. major | 96836 | idem 96836 |
| prox. minor | 96810 | noster 96822 |
| Diff. | 26 — 100 — | 14 |

Operatione per auream regulam peractâ provenium 54. Totum itaq; latus quæsitum est 379754.

*Notandum, si resectæ notæ fuerint decaleptorum, locum hîc eiâ habere regulam 2. & 3. ut scilicet acquisitarum nota ultima abscisæ apices ultimæ resectarum.*

*5. Si in subtractione logarithmorum subtrahendus fuerit major reliquo, ut pro subtractione perficienda isti reliquo sit additus è suprà memoratis adscititius aliquis,*

*nempe* { 230258 *logarithmus ultimò proveniens ostendit numerū sive latus quæsitum mutilum notis finalibus* } *unâ duabus* { *quę propterea per regulam jam modò traditas acquirantur & apponantur.*
460517

*Consequenter si logarithmus ultimò proveniens exactè in Tabula extat, numero per eum ostenso apponatur 0 vel 00. ut regulâ 4.* Exempla.

Sit primò Trianguli obliquanguli latus aliquod partium 8130, angulus eidem oppositus 21 gr. 6 scr. angulus quæsito lateri oppositus 77 gr. 9 scr. Hujus logarithmus 2536 additus dati lateris logarithmo 20702, conficit summam 23238. Ab hac subtrahendus est anguli primi logarithmus 102166, quod fieri nequit. Accipitur igitur summæ additorum logg. numerus adscititius 230258 (sufficit enim hic) & à nova summa 253496 jam fiat subtractio logarithmi 102166: Residuum 151330 est logarithmus numeri 12201, qui est latus quæsitum, sed unâ notâ finali mutilum. Differentia logarithmi provenientis & proximè majoris in Tabula est 37: differentia proximè majoris & minoris 46. Colligo: 46—10—37. f. 8. Integrum itaq; latus quæsitum est 122018.

Esto deinde Trianguli obliq. latus partium 9500, angulus illi oppositus tantùm 3 gr. 27 scrup. cujus logarithmus 2810046, angulus quæsito lateri oppositus 84 grad. 16 scrupp.

Hu-

Hujus logarithmus 501
Log. lateris dati 5129

Summa 5630 longè minor subtrahendo.
Adde igitur 460517

Ut fiat summa 466147
Jam subtrahe 281046

Restat logar. 185101 (notis duab. mutilũ.
Proximè major 185151 (1570. Latus quæsitũ sed

Diff. 50 Diff. prox. maj. & min. est 64

Collige igitur: 64—100—50. f. 78. Latus igitur quæsitum integrum est 157078.

*Calculus per Sinus ad Radium 5. cifrarum præbet tantùm 157070 sed ad radium majorem (e. g. 7. vel 8. cifr.) institutus præbet 157077. Differentia hæc unitatis in tam grandi numero nullius est momenti; Observandum potius, si posteriores laterũ dati notæ fuerint decalepta, etiam posteriores laterũ quæsiti fore decalepta, postremam tot apicum quot postrema laterũ dati, juxta Reg. 2. & 3.*

Et hactenus Præcognita Logarithmica.

# PRAXIS TRIGONOMETRIÆ LOGARITHMICÆ.

## REGULA GENERALIS.

*AD Proportiones Trigonometriæ vulgaris logarithmicè expediendas; pro Sinu alicujus arcus substitue ejusdem arcus logarithmum; (& ita pro Sinu Toto substitue 0;) pro sinu complementi, Antilogarithmum; pro Tangente, Mesologarithmum; pro Secante, Antilogarithmum cum signo defectivo; pro Latere denig. rectilineo, logarithmum Tabulæ Primæ; quo facto,*

## Latus Angulo Recto Adiacens.

### E Lateribus reliquis:

*Logarithmus hypotenusæ subtractus à logarithmo lateris reliqui relinquit logarithmum anguli dato lateri oppositi. Cujus anguli antilogarithmus additus logarithmo hypotenusæ componit logarithmum lateris quæsiti.*

Sit hypotenusa 500: latus minus 300. quæratur alterũ.

Logar. Lateris 350656
Log.hypotenusæ 299573 S.

o / //
Log.anguli oppos. 51083(365211.
Antilogarithmus 22314 add. ad log.hypot.
Log.lateris quæsiti 321887(400.

*Si tamen hypotenusa non excedat (vel saltem non multum excedat) numerum 4300, Compendium per antilogarithmos est, ut erat in quærenda hypotenusa: nisi quod hic antilogarithmi non addantur sed subtrahantur.*

Sit hypotenusa 3625 .i. (si numerus concipiatur ut scrupp. sexagenaria secunda) 1 gr. 0 scr. 25 sec. & latus reliquum 1864 .i. 36 scrupp. 15 sec.

o / //
1 0 25 Antilog. 15.443
36 15 Antilog. 5.559 S.

/ // //
9.884(48 20 .i. 2550.

*Et notetur cautio de antilogarithmorum excerptione pag. 17. (initio) tradita.*

### Ex angulis & hypotenusa:

*Summa logarithmorum hypotenusæ & anguli, lateri quæsito oppositi, est logarithmus lateris quæsiti.*

o / //
Sit hypotenusa 500. ang. quęsito lat. oppos. 53 7 49.
Logarith. hypotenusæ 299573
Logarith. anguli 22314
Logar. lateris quæsiti 321887(40.

Ex angulis & altero circa rectum latere:

*Summa (Cossica, si res poscat) logarithmi lateris & mesologarithmi anguli quæsito lateri oppositi, est logarithmus lateris quæsiti. Vel, non attentis signis cossicis, si detur latus*

*Majus; Summa logarithmi lateris & mesologarithmi anguli quæsito lateri oppositi, est logarithmus lateris quæsiti.*

*Minus; Mesologarithmus dicti anguli subtractus a logarithmo lateris relinquit logarithmum lateris quæsiti.*

Detur primò latus majus 500, & angulus minori lateri oppositus 36 grad. 52 scrupp. 11 sec.

Logarithmus lateris 321887
Mesologar. anguli 28769

Logar. lateris quæsiti 350656 (300.

Detur deinde latus minus 300. & angulus majori lateri oppositus 53 grad 7 scrupp. 49. sec.

Logarithmus Lateris 350656
Mesologar. anguli 28769 S.

Logar. Lat. quæsiti 321887 (400.

Detur Latus Minus 9500, & ang. maj. opp. 88 gr. 27m.
Logarith. lateris 5129. longè minor Mesologo.
Adde igitur adscit. 460517

465646
Mesologar. anguli 360973

Logarith. lateris 104673 (3519 latus quæsitũ sed
Proximè major. 104697 notis duab. final. mutilũ.

Diff. 24. Diff. logarithmor. prox.
majoris & minoris— 29. Collige: 29—100—24
f. 83. Latus igitur quæsitum integrum est 351083.

## Angulus Acutus.

E lateribus angulum rectum comprehendentibus:

*Logarithmus lateris majoris subtractus à logarithmo minoris relinquit mesologarithmum anguli minoris: cujus complementum ad 90 gr. est angulus major, si is quæritur*

Ex

*Et iste mesologarithmus semper est abundans: ne quis de Algebra sit sollicitus.*

Dentur latera 300. 400. quærantur anguli.

Logar. lateris minoris 350656
majoris 321887

| | | ′ | ″ |
|---|---|---|---|
| Mesolog. ang. minoris | 28769 | (36 | 52 11. |
| Igitur angulus major — — | | 53 | 7 49. |

Ex hypotenusa & latere, quod quæsito angulo opponitur;

*Logarithmus hypotenusæ subtractus à logarithmo dati lateris relinquit logarithmum anguli quæsiti.*

Sit hypotenusa 500. latus quæsito angulo oppositum 400.

Logar. Lateris 321887
Log. hypotenusæ 299573

| | o | ′ | ″ |
|---|---|---|---|
| Log. ang. quæsiti 22314 | (53 | 7 | 49. |

Ex hypotenusa & latere quod quæsito angulo adjacet;

*Logarithmus hypotenusæ subtractus à logarithmo dati lateris relinquit antilogarithmum anguli quæsiti.*

Sit iterum hypotenusa 500. latus angulo quæsito adjacens 300.

Logar. lateris 350656
Logar. hypoten. 299573

| | o | ′ | ″ |
|---|---|---|---|
| Antilog. ang. quæs. 51083 | (53 | 7 | 49. |

## II. OBLIQUANGULORUM.

## IN TRIANGULO OBLIQUANGULO *si quæratur*

## LATUS.

Ex angulis & uno latere:

(*Datis duobus angulis tertius est eorum additorum Complementum ad 180 gr.*)

A Sum-

*A Summa logarithmorum dati lateris & anguli quæsito lateri oppositi subtractus logarithmus anguli dato lateri oppositi relinquit logarithmum lateris quæsiti.*

Sit latus partium 225, angulus illi oppositus 29 gr. 15 scrupp. angulus alius 72 gr. 15 scrupp. quæratur latus huic oppositum.

72 gr. 15 scr. Log. 4877
225. Log. 379424

384301
29 gr. 15. sc. Log. 71617 S.

Log. lat. quæsiti 312684 (438 cum semisse.

Vel, ut unâ operâ etiam scrupula lateris denaria primæ lucremur, & evitemus grandes logarithmorum proximè minoris & majoris differentias, assumendo latus datum 225.0 scr. 72 gr. 15. scr. Log. 4877
2250. Log. 149165

154042
29 gr. 15 scr. Log. 71617 S.

Log. lateris quæsiti 82425 (438. 5 6
*Exempla plura habes pag.* 24.

## ANGULUS.

### E duobus lateribus & angulo illis comprehenso:

*A Summa (Cossica, si res postat) Mesologarithmi dimidiæ reliquorum (ignotorum) angulorum summæ & logarithmi differentiæ laterum subtractus (cossicè, si opus) logarithmus summæ laterum relinquit mesologarithmum anguli, à dimidia ignotorum angulorum summa subtrahendi, ut prodeat ignotorum minor; aut eidem dimidiæ summæ addendi, ut prodeat major.*

[Angulus iste addendus, vel subtrahendus, usitatè dici-

dicitur *Angulus differentiæ angulorum*, sc. unius ignotorum supra vel infra dimidiam utriusq; summã.]

Dentur latera 210. 100. & angulus comprehensus 110 gr. 20 scr. ita ut summa reliquorum duorum ignotorum sit 69 gr. 40 scr. ejusq; summæ dimidium 34 gr. 50 scr. Summa laterum 310. diff. laterum 110.

Log. diffræ laterum 450986+ (*omnes enim primæ*
Mes. semisummæ angulor. 36258+ *tabulæ logg. sunt abundantes.*)

Summa ——— 487244+
Logar. summæ laterum 347377+ Subtr.

| | o | / | // |
|---|---|---|---|
| Mesolog. diffræ. angulor. 139867+ (13 | 52 | 13 | |
| Semisumma angulor. ignotor. erat | 34 | 50 | 0 |
| Igitur ignotorum minor est ——— | 20 | 57 | 47 |
| major — — | 48 | 42 | 13. |

Aliter: *Ad differentiam logarithmorum Summæ & Differentiæ Laterum additus (cossicè) Mesologarithmus semisummæ ignotorum angulorum producit Mesologarithmum Anguli differentiæ subtrahendi vel addendi, ut antè.*

Ut in priori exemplo:

Logarith. summæ laterum 347377+
Logarith. diffræ laterum 450986+

Diff. logarithmor. ——— 103609+ *Kepplero log. Indicis.*
Mesol. semisummæ ang. ign. 36258+

Mesol. differentiæ angul. 139867+ &c.

Aliud exemplum, signis Cossicis diversis. Sint latera 3252. 4860. angulus comprehensus 72 gr. 30 scrupp. ut summa ignotorum sit 107 gr. 30 scrupp. dimidiata 53 grad: 45 scrupp.

3252
4860

Summa lat. 8112. Logar. 20923
Differ. lat. 1608. Logar. 182759

Logarithmus Indicis 161836 semper+ Logar.

| | | | |
|---|---|---|---|
| Logar. Indicis | 161836 | semper + | |
| Mesol. semisummæ ignot. ang. | 31029 | — Add. cossice. | |
| Mesolog differentiæ angulor. | 130807 | + | (15 7 41 |
| | | | 53 45 0 |
| Angulus quæsitus Minor | | | 38 37 19 |
| Major | | | 68 52 41 |

*Nota; Si Triangulum sit æquicrurum aut æquilaterum, dato uno angulorum dari statim omnes, ut prolixo calculo non sit opus.*

## E duobus lateribus & angulo uni eorum opposito:

*A Summa logarithmorum dati anguli & lateris quæsito angulo oppositi subtractus logarithmus lateris angulo dato oppositi relinquit logarithmum anguli quæsiti, aut (si is obtusus esse debeat) ejus ad semicirculum complementi.*

Est conversa praxeos proportionis Obliquangulorum primæ. Sit itaq; latera, 225. 0 438. 5 6 & angulus priori oppositus 29 grad. 15 scr. quæratur posteriori oppositus.

| | | | |
|---|---|---|---|
| 0 | / | | |
| 29 | 15 | Logar. | 71617 |
| 438. | 56 | Logar. | 82425 |
| | | | 154042 |
| 225. | 0 | Logar. | 149165 |
| | | | 0 / |
| | | Logar. | 4877 (72 15. Ang. quæsitus. |

*Si Triangulum sit æquilaterum aut æquicrurum, dato uno angulorum dati sunt omnes.*

## Ex omnibus lateribus:

*A summa logarithmorum aggregati & differentiæ laterum præter maximum reliquorum subtractus logarithmus lateris maximi relinquit logarithmum segmenti à latere maximo subtrahendi; ut constet residuum. Et tunc*

*mesolog. proximè minori, & inventa deinde, ut antè, strupula secunda apponantur minutiis primis Mesologarithmo minori respondentibus.*

Sit logarithmus 92225, quæratur ejus arcus. Logarithmus proximè major in Tabula secunda est 92277 & hic competit 23 gr. 25 scr. Differentia 10 scrupp. competens ibidem asscripta est 11. Differentia logarithmorum mei & prox. majoris est 52. Colligo: 11 dant scrupp. secunda 10, quot 52? f. 47. Igitur arcus quæsitus est 23 gr. 25 scr. 47. sec.

Sit deinde logarithmus 3556 & quæratur ejus arcus. Logarithmo proximè majori respondent 74 gr. 48 scr. Differentia â logarithmo scrupuli proximè sequentis asscripta est 8. Hæc sc. competit 60 secundis, quot ergo secunda requirit differentia logarithmi nostri & proximè majoris, quæ est 5? resp. 37. Arcus igitur quæsitus 74 gr. 48 scrupp. 37 sec.

Sit Mesologarithmus 62550+ Quis ejus arcus? Mesologarithmus proximè major (inclinat enim signum + versus marginem sinistrum, adeoq; versus gradus & scrupula semiquadrantis prioris) 62605 + ostendit 28 gr. 8 scrupp. Differentia hujus mesolog. & mei est 55. Differentia mesologarithmorum proximè majoris & minoris asscripta est 12 pro 10 secundis. 12-10-55 f. 46. fere. Arcus igitur quæsitus est 28 gr. 8 scr. 46 sec.

Quæratur deniq; arcus mesologarithmi 83862— Mesologarithmus proximè minor (respicit enim signum — gradus & scrupula semiquadrantis posterioris) est 83842— competens 66 gr. 37 scr. Differentia hujus Mesolog. & mei est 20. Diff. Mesologarithmorum proximè minoris & majoris est 13 pro 10 secundis.

13—10 sec. —20 f. 15 sec. Itaq; arcus quæsitus integer est 66 gr. 37 scrupp. 15 sec.

*Quod si logarithmus aut mesologarithmus cadat inter logarithmos aut mesologarithmos primi gradus non completi; quaratur in Tabula tertia: ibi enim sive exactus sive saltem proximus ostendit respondentia scrupp: prima in fronte, & secunda in margine sinistro.*

Sit

Sit logarithmus 493867. Hic versatur intra logarithmos 24 scr. & 25 sec. primi gradus non completi. Quæratur igitur in Tabula tertia, in columna tituli 24 Prim. Proximus illi est 493848, & ostendit 24 scr. 38 sec.

Sit Mesologarithmus 413032. Versatur hic intra logarith. 55 scr. & 56. sec. Quæsitus itaq; in Tabula tertia primùm proximus illi Logarithmus 413044 minuatur numero in caloe ejus columellæ subjuncto 13, ut restet mesologarithmus 413031. Subtrahantur etiã in sequenti logarithmo eadem 13, ut restet mesologarithmus 413001. Priori noster quam proximus est, ideoq; ipsi competunt 55 scr. prima 16. sec.

In Triangulis autem Planis latera sunt lineæ rectæ, definiendæ numeris absolutis per logarithmos Tabulâ primâ comprehensos. Quæ ipsa Laterum inquisitio pluribus eget regulis & cautelis. Nempe, cum ad Planorum Trigonometriam necessariò requiratur cognitio saltem unius lateris,

1. *Si istud datum Latus constitit meris numeris integris absq; ullis scrupulis denariis, neq; major fuit numero* 10000, *nec in operatione arithmetica accessit additio alicujus numeri assititii suprà indicatorum*, 230258, 460517 *&c. Logarithmus proveniens est ipse log. Lateris quæsiti. Qui si in Tabula prima reperitur exactus, centenarius in fronte columellæ, & compositus in margine, ostendunt ipsum Latus quæsitum. Ut, logarithmi* 37482 *numerus absolutus est* 6874. *Sin autem non invenitur exactus, indicium est, numerum absolutum lateris habere etiam scrupula sive decalepta, quæ more Tabulis vulgaribus usitato colliguntur. Nam ut differentia logarithmorum proximè majoris & minoris est ad* 10 *scrupula prima (vel* 100 *secunda, vel* 1000 *tertia &c) sic differentia logarithmi proximè majoris & mei est ad scrupula proportionalia.*

Detur logarithmus 45686 & quæratur ejus numerus vulgaris. Logarithmus proximè major 45696 dat 6332,

Differentia à sequente est 16. Diff. à meo est 10. Si igitur decalepta cupio tantùm prima, colligo: 16—10 scrup. —10. Si cupio etiam secunda, colligo: 16— 100. —10 Si cupio tertia, colligo 16—1000—10. & ita deinceps. Cupiam autem prima & secunda; itaq; proveniunt (regulâ proportionum peracta) 6 scr. 2 sec. cum semisse. Numerus igitur absolutus exactus evadit 6332. 6/2//

2. *Si latus datum constitit meris decaleptis, logarithmi etiã provenientis numeri absolutus (sive latus quæsitum) est decaleptorum, ita ut ultima ejus nota censenda sit similis ultimæ numeri sive lateris dati.*

Exempli gratia, si latus datum fuisset 3 4 5 6, & ex operatione proveniret logarithmus 96822 (quot fit si angulus dato lateri oppos: sit 64 gr. 10 min. & angulus quæsito lateri oppositus 81 gr. 30 scr.) ostendit is quidem latus quæsitũ 3797 cum semi: sed non partium integrarum, sed tantum scrupulorum, ita ut ultima nota 7 sit Quartorum, quotorum scilicet est ultima nota lateris dati, ac proinde (cum logarithmus 96822 non extet in Tabula exactus) fractio adhærens (p. part. prop. inquisita) non est nisi 5 Quintorum.

3. *Sic si latus datum fuit partium quidem integrarum sed tamen cum adherentibus decaleptis; lateris etiam quæsiti per logarithmum provenientem excerpti nota ultima similis censeatur ultimæ lateris dati.*

Ut si latus datum fuisset partium 34. 5 6, & ex operatione proveniret logarithmus 96822, ostendens 3797 ultima hujus numeri sive lateris quæsiti nota 7 est scrupulorum secundorum, quemadmodum ultima nota lateris dati: ac proinde latus quæsitum censeatur partium 37. 97 cum semisse, sive 9 7 5.

4. *Si datum latus fuit numeri (vel integri vel cum decaleptis) myriadem excedentis, logarithmus proveniens ostendet latus quæsitum tot notis finalibus mutilum, quot*

notis

notis finalibus latus datum ante operationem fuit curtatum. Proinde

*Si à latere dato ante operationem fuerint*

| | | | | |
|---|---|---|---|---|
| resecta notæ | una, | Sicut se habet differentia logarithm. prox. majoris & minoris ad | 10 | sic se habet |
| | duæ, | | 100 | |
| | tres, | | 1000 | |
| | 4 | | 10000 | |
| | 5 | | 100000 | |
| | 6 &c. | | 1000000 | |

*differentia logarithmi provenientis & proximè majoris ad notas finales lateri mutilo ad ejus integrationem apponendas. Hoc est, differentia provenientis & proximè majoris, tot cifris, quot notæ finales desiderantur, aucta dividatur in differentiam logg. proximè majoris & minoris; Quotus dabit notas desideratas. Consequenter si logarithmus proveniens exactè reperiatur in Tabula, numero quem ostendit absoluto apponantur tot cifræ sive o, quot à latere dato resectæ fuerant notæ finales, sive resectæ fuerint cifræ sive significativæ.*

Exempli gratia, si latus datum fuisset 362500, ita ut pro logarithmo ejus excerpendo resecari oportuerit finales duas, siqs post operationem proveniret logarithmus 152556; extat hic in Tabula exactè & respondet numero absoluto 2175 tanquam lateri quæsito, sed finalibus duabus mutilo. Apponantur igitur 00 (pro numero sc. resectarum à latere dato) ut latus quæsitum fiat integrum 217500.

Si latus datum sit 345600, curtandum itidem notis finalib. duabus, & proveniret logarithmus 968223 proxime major in tabula est 96836, ostendens numerum absolutum 3797 tanquam latus quæsitum, sed notis duabus (pro numero resectarum à latere dato) mutilū. Proinde hæ duæ notæ acquirantur hoc modo:

| | | |
|---|---|---|
| Log. prox. major | 96836 | idem 96836 |
| prox. minor | 96810 | noster 96822 |
| Diff. | 26 — 100 — | 14 |

Operatione per aueam regulam peractâ provenium 54. Totum itaq; latus quæsitum est 379754.

*Notandum, si resectæ notæ fuerint decaleptorum, locum hîc eiâ habere regulam 2. & 3. ut scilicet acquisitarum nota ultima assciscat apices ultimæ resectarum.*

*5. Si in subtractione logarithmorum subtrahendus fuerit major reliquo, ut pro subtractione perficienda isti reliquo sit additus è suprà memoratis assititiis aliquis,*

*nempe* { 230258 / 460517 } *logarithmus ultimò proveniens ostendit numerū sive latus quæsitum mutilum notis finalibus* *unâ duabus* *quę propterea per regulam jam modò traditas acquirantur & apponantur.*

*Consequenter si logarithmus ultimò proveniens exactè in Tabula extat, numero per eum ostenso apponatur o vel oo. ut regulâ 4.* Exempla.

Sit primò Trianguli obliquanguli latus aliquod partium 8130, angulus eidem oppositus 21 gr. 6 scr. angulus quæsito lateri oppositus 77 gr. 9 scr. Hujus logarithmus 2536 additus dati lateris logarithmo 20702, conficit summam 23238. Ab hac subtrahendus est anguli primi logarithmus 102166, quod fieri nequit. Accipiatur igitur summæ additorum logg. numerus adscititius 230258 (sufficit enim hic) & à nova summa 253496 jam fiat subtractio logarithmi 102166: Residuum 151330 est logarithmus numeri 2201, qui est latus quæsitum, sed una notâ finali mutilum. Differentia logarithmi provenientis & proximè majoris in Tabula est 37: differentia proximè majoris & minoris 46. Colligit: 46—10—37. f. 8. Integrum itaq; latus quæsitum est 22018.

Esto deinde Trianguli obliq. latus partium 9500, angulus illi oppositus tantùm 3 gr. 27 scrup. cujus logarithmus 2810 46, angulus quæsito lateri oppositus 84 grad. 16 scrupp.

Hu-

| | | |
|---|---|---|
| Hujus logarithmus | 501 | |
| Log. lateris dati | 5129 | |
| Summa | 5630 | longè minor subtrahendo. |
| Adde igitur | 460517 | |
| Ut fiat summa | 466147 | |
| Jam subtrahe | 281046 | |
| Restat logar. | 185101 | (notis duab. mutilũ. |
| Proximè major | 185151 | (1570. Latus quæsitũ sed |
| Diff. | 50 | Diff. prox. maj. & min. est 64 |

Collige igitur: 64—100—50. f. 78. Latus igitur quæsitum integrum est 157078.

*Calculus per Sinus ad Radium 5. cifrarum præbet tantùm 157070 sed ad radium majorem (e. g. 7. vel 8. cifr.) institutus præbet 157077. Differentia hæc unitatis in tam grandi numero nullius est momenti; Observandum potius, si posteriores lateris dati notæ fuerint decalepta, etiam posteriores lateris quæsiti fore decalepta, postremam tot apicum quot postrema lateris dati, juxta Reg. 2. & 3.*

Et hactenus Præcognita Logarithmica.

# PRAXIS TRIGONOMETRIÆ LOGARITHMICÆ.

## REGULA GENERALIS.

*AD Proportiones Trigonometriæ vulgaris logarithmicè expediendas; pro Sinu alicujus arcus substitue ejusdem arcus logarithmum; (& ita pro Sinu Toto substitue 0;) pro sinu complementi, Antilogarithmum; pro Tangente, Mesologarithmum; pro Secante, Antilogarithmum cum signo defectivo; pro Latere denig. rectilineo, logarithmum Tabulæ Primæ; quo facto,*

*à summa logarithmorum* (vel antilogg. vel mesologg. pro conditione Proportionis Trigonometricæ) *secundi & tertii subtrahe logarithmum Primi: & proveniet logarithmus* (antilog. mesolog.) *quæsiti.*

CONSECTARIUM. *Itaq; si primo loco Proportionis vulgaris sit sinus totus, operatio absolvitur solâ additione: si Sinus Totus fuerit secundo vel tertio loco, operatio perficitur solâ subtractione.*

Sed subjiciendæ sunt regulæ speciales.

# TRIGONOMETRIA PLANORUM.

## I. RECTANGULORUM.

### IN TRIANGULO RECTANGULO *si quæratur*

### HYPOTENUSA

E datis lateribus reliquis:

*Logarithmus lateris majoris subtrahatur à logarithmo lateris minoris: residuo* (tanquam mesologarithmo anguli minoris) *respondens logarithmus subtractus à logarithmo lateris minoris relinquit logarithmum hypotenusæ.*

Esto latus unum 300, alterum 400.

300. Logar. 350656.
400. Logar. 321887

Mesolog. 28769 (ang. 36 52 11 circ. Cui
respondet Logar. 51083 subtr. à log. lat. min.

restat Logar. 299573 (500. Hypotenusa quæsita.

*Si tamen data latera non fuerint singula majora numero 3000, Tabula Quarta præbet compendium expeditius.*

tius. Nimirum data latera singula, tanquam scrupula sexagenaria secunda æstimata, redigantur in scrupula prima: cum ǵ illis & (si quæ è divisione sive reductione superfuerint) secundis excerpantur respondentes antilogarithmi: Summa antilogarithmorum est Antilogarithmus Scrupulorum primorum & secundorum, quæ in mera secunda resoluta dant hypotenusam quæsitam.

Ut in priori exemplo 300 secunda sunt 5′ 0″ 300 secunda sunt 6 prima, 40 sec.

5′ 0″ antilog. 0. 106
640 antilog. 0. 188

0. 294 (820 .i. 500. secunda.

Hypotenusa, inquam, est 500.

Sic si latera sint 2550. 1864. Singula, tanquam scr. sexag secunda, reducta in prima, fiunt

4820 Antilog. 9.884
& 3615 Antilog. 5.559

15.443 (60 25″ .i. 3625. Hypot. quæsita.

*Quod si antilogarithmorum alter excerpatur è tabulæ pag. prima, alter è reliquarum aliqua, attendatur cautio pag. 17. (initio) indicata.*

## Ex angulis acutis & uno latere:

*(Datus unus acutorum datus est & alter, ut ejus complementum ad 90 gradus)*

*Logarithmus anguli dato lateri oppositi subtractus à logarithmo dati lateris relinquit logarithmum hypotenusæ.*

Detur latus 300, angulus illi oppositus 36° 52′ 21″.
Logar. lateris 350656
Logar. anguli 51083.

Logar. Hypot. 299573 (500.

*Vel, (quod eodem recidit) Antilogarithmus defectivus anguli dato lateri adjacentis additus Cosicè logarithmo lateris exhibet logarithmum hypotenusæ.*

Latus

# Latus Angulo Recto Adiacens.

## E Lateribus reliquis:

*Logarithmus hypotenusæ subtractus à logarithmo lateris reliqui relinquit logarithmum anguli dato lateri oppositi. Cujus anguli antilogarithmus additus logarithmo hypotenusæ componit logarithmum lateris quæsiti.*

Sit hypotenusa 500: latus minus 300. quæratur alterũ.

Logar. Lateris 350656
Log. hypotenusæ 299573 S.

o / //

Log. anguli oppos. 51083 (36 52 11.
Antilogarithmus 22314 add. ad log. hypot.
Log. lateris quæsiti 321887 (400.

*Si tamen hypotenusa non excedat (vel saltem non multum excedat) numerum 4300, Compendium per antilogarithmos est, ut erat in quarenda hypotenusa: nisi quod hic antilogarithmi non addantur sed subtrahantur.*

Sit hypotenusa 3625 .i. (si numerus concipiatur ut scrupp. sexagenaria secunda) 1 gr. 0 scr. 25 sec. & latus reliquum 1864 .i. 36 scrupp. 15 sec.

o / //
1 0 25 Antilog. 15.443
36 15 Antilog. 5.559 S.

/ // //
9.884 (48 20 .i. 2550.

*Et notetur cautio de antilogarithmorum excerptione pag. 17. (initio) tradita.*

## Ex angulis & hypotenusa:

*Summa logarithmorum hypotenusæ & anguli, lateri quæsito oppositi, est logarithmus lateris quæsiti.*

o / //
Sit hypotenusa 500. ang. quęsito lat. oppos. 53 7 49.
Logarith. hypotenusæ 299573
Logarith. anguli 22314
Logar. lateris quæsiti 321887 (40.

Et

Ex angulis & altero circa rectum latere:

*Summa (Cossica, si res poscat) logarithmi lateris & mesologarithmi anguli quæsito lateri oppositi, est logarithmus lateris quæsiti. Vel, non attentis signis cossicis, si detur latus Majus; Summa logarithmi lateris & mesologarithmi anguli quæsito lateri oppositi, est logarithmus lateris quæsiti. Minus; Mesologarithmus dicti anguli subtractus a logarithmo lateris relinquit logarithmum lateris quæsiti.*

Detur primò latus majus 500, & angulus minori lateri oppositus 36 grad. 52 scrupp. 11 sec.

Logarithmus lateris 321887
Mesologar. anguli 28769

Logar. lateris quæsiti 350656 (300.

Detur deinde latus minus 300. & angulus majori lateri oppositus 53 grad 7 scrupp. 49. sec.

Logarithmus Lateris 350656
Mesologar. anguli 28769 S.

Logar. Lat. quæsiti 321887 (400.

Detur Latus Minus 9500, & ang. maj. opp. 88 gr. 27m.
Logarith. lateris 5129. longè minor Mesologo.
Adde igitur adscit. 460517

465646
Mesologar. anguli 360973

Logarith. lateris 104673 (3519 latus quæsitũ sed
Proximè major. 104697 notis duab. final. mutilũ.

Diff. 24. Diff. logarithmor. prox.
majoris & minoris— 29. Collige: 29—100—24
f. 83. Latus igitur quæsitum integrum est 351083.

## Angulus Acutus.

E lateribus angulum rectum comprehendentibus:

*Logarithmus lateris majoris subtractus à logarithmo minoris relinquit mesologarithmum anguli minoris: cujus complementum ad 90 gr. est angulus major, si is quæritur*

Et

*Et iste mesologarithmus semper est abundans; ne quis de Algebra sit sollicitus.*

Dentur latera 300. 400. quærantur anguli.

Logar. lateris minoris 350656
majoris 321887

| | | ° | ′ | ″ |
|---|---|---|---|---|
| Mesolog. ang. minoris | 28769 | (36 | 52 | 11. |
| Igitur angulus major — — | | 53 | 7 | 49. |

Ex hypotenusa & latere, quod quæsito angulo opponitur:

*Logarithmus hypotenusæ subtractus à logarithmo dati lateris relinquit logarithmum anguli quæsiti.*

Sit hypotenusa 500, latus quæsito angulo oppositum 400.

Logar. Lateris 321887
Log. hypotenusæ 299573

| | ° | ′ | ″ |
|---|---|---|---|
| Log. ang. quæsiti 22314 | (53 | 7 | 49. |

Ex hypotenusa & latere quod quæsito angulo adjacet;

*Logarithmus hypotenusæ subtractus à logarithmo dati lateris relinquit antilogarithmum anguli quæsiti.*

Sit iterum hypotenusa 500. latus angulo quæsito adjacens 300.

Logar. lateris 350656
Logar. hypoten. 299573

| | ° | ′ | ″ |
|---|---|---|---|
| Antilog. ang. quæs. 51083 | (53 | 7 | 49. |

## II. OBLIQUANGULORUM. IN TRIANGULO OBLIQUANGULO *si quæratur*

### LATUS.

Ex angulis & uno latere:

(*Datis duobus angulis tertius est eorum additorum Complementum ad 180 gr.*)

A Sum-

*A Summa logarithmorum dati lateris & anguli quæsito lateri oppositi subtractus logarithmus anguli dato lateri oppositi relinquit logarithmum lateris quæsiti.*

Sit latus partium 225, angulus illi oppositus 29 gr. 15 scrupp. angulus alius 72 gr. 15 scrupp. quæratur latus huic oppositum.

72 gr. 15 scr. Log. 4877
225. Log. 379424

384301
29 gr. 15. sc. Log. 71617 S.

Log. lat. quæsiti 312684 (438 cum semisse.

Vel sùt unâ operâ etiam scrupula lateris denaria primæ lucremur, & evitemus grandes logarithmorum proximè minoris & majoris differentias, assumendo latus datum 225.0 scr. 72 gr. 15. scr. Log. 4877
2250. Log. 149165

154042
29 gr. 15 scr. Log. 71617 S.

Log. lateris quæsiti 82425 (438. 5 6
/ //

*Exempla plura habes pag.* 24.

## ANGULUS.

### E duobus lateribus & angulo illis comprehenso:

*A Summa (Cossica, si res postulat) Mesologarithmi dimidiæ reliquorum (ignotorum) angulorum summæ & logarithmi differentiæ laterum subtractus (cossicè, si opus) logarithmus summæ laterum relinquit mesologarithmum anguli, à dimidia ignotorum angulorum summa subtrahendi, ut prodeat ignotorum minor; aut eidem dimidiæ summæ addendi, ut prodeat major.*

[Angulus iste addendus, vel subtrahendus, usitatè dici-

dicitur *Angulus differentiæ angulorum*, sc. unius ignotorum supra vel infra dimidiam utriusq; summã.]

Dentur latera 210. 100. & angulus comprehensus 110 gr. 20 scr. ita ut summa reliquorum duorum ignotorum sit 69 gr. 40 scr. ejusq; summæ dimidium 34 gr. 50 scr. Summa laterum 310. diff. laterum 110.

Log. diffræ laterum 450986–+ (*omnes enim primæ*
Mes. semisummæ angulor. 36258–+ *tabulæ logg. sunt*
*abundantes.*)

Summã ——— 487244–+
Logar. summæ laterum 347377–+ Subtr.

| | o | / | // |
|---|---|---|---|
| Mesolog. diffræ. angulor. 139867–+ ( | 13 | 52 | 13 |
| Semisumma angulor. ignotor. erat | 34 | 50 | 0 |
| Igitur ignotorum minor est ——— | 20 | 57 | 47 |
| major — — | 48 | 42 | 13. |

Aliter: *Ad differentiam logarithmorum Summæ & Differentiæ Laterum additus (cossicè) Mesologarithmus semisummæ ignotorum angulorum producit Mesologarithmum Anguli differentiæ subtrahendi vel addendi, ut antè.*

Ut in priori exemplo:

Logarith. summæ laterum 347377–+
Logarith. diffræ laterum 450986–+

Diff. logarithmor. ——— 103609–+ *Kepplero log. Indicis.*
Mesol. semisummæ ang. ign. 36258–+

Mesol. differentiæ angul. 139867–+ &c.

Aliud exemplum, signis Cossicis diversis. Sint latera 3252. 4860. angulus comprehensus 72 gr. 30 scrupp. ut summa ignotorum sit 107 gr. 30 scrupp. dimidiata 53 grad: 45 scrupp.

3252
4860

Summa lat. 8112. Logar. 20923
Differ. lat. 1608. Logar. 182759

Logarithmus Indicis 161836 semper–+ Logar.

| | | |
|---|---|---|
| Logar. Indicis | 161836 | semper + |
| Mesol. semisummæ ignot. ang. | 31029 | — Add. cossice. |
| Meslog differentiæ angulor. | 130807 | + (15 7 41 |
| | | 53 45 0 |
| Angulus quæsitus Minor | | 38 37 19 |
| Major | | 68 52 41 |

*Nota; Si Triangulum sit æquicrurum aut æquilaterum, dato uno angulorum dari statim omnes, ut prolixo calculo non sit opus.*

## E duobus lateribus & angulo uni eorum opposito:

*A Summa logarithmorum dati anguli & lateris quæsito angulo oppositi subtractus logarithmus lateris angulo dato oppositi relinquit logarithmum anguli quæsiti, aut (si is obtusus esse debeat) ejus ad semicirculum complementi.*

Est conversa præcedentis proportionis Obliquangulorum primæ. Sit itaq; latera, 225. 0 438. 5 6 & angulus priori oppositus 29 grad. 15 scr. quæratur posteriori oppositus.

| | | | |
|---|---|---|---|
| 0 | / | | |
| 29 | 15 | Logar. | 71617 |
| 438,56 | | Logar. | 82425 |
| | | | 154042 |
| 225,0 | | Logar. | 149165 |
| | | | 0 / |
| | | Logar. | 4877 (72 15, Ang. quæsitus. |

*Si Triangulum sit æquilaterum aut æquicrurum, dato uno angulorum dati sunt omnes.*

## Ex omnibus lateribus:

*A summa logarithmorum aggregati & differentia laterum præter maximum reliquorum subtractus logarithmus lateris maximi relinquit logarithmum segmenti à latere maximo subtrahendi; ut constet residuum. Et tunc*

*logarithmus lateris minimi subtractus à logarithmo semireſidui relinquit antilogarithmum anguli ſemireſiduo adjacentis, ſive latere maximo & minimo comprehenſi. Item, logarithmus lateris medii ſubtractus à logarithmo Numeri è ſubtracto ſegmento & ſemireſiduo compoſiti relinquit antilogarithmum anguli latere maximo & medio comprehenſi. Quorum alterutro cognito cognoſcuntur facilius reliqui per regulam proximè præcedentem.*

Sint latera, 340. 500. 730.

340
500.

Summa 840. Log. 247694
Differen. 160. Log. 413517

661211
Lat.max. 730. Log. 261730 Subtr.

Log. 399481 (184. ſegm. ſubtrahendũ
730. Latus maximum

Reſid. 546
Semiſs. 273. Log. 360087
Lat.minim. 340. Log. 338139.

Antilog. 21948 (36 0 / //
35 18 angulus latere max. & min. comprehenſus.

Aut, ſi deſideretur angulus latere maximo & medio comprehenſus, ſic agatur:

Semireſid. 273
Segm. ſubtr. 184

Summa— 457. Log. 308566
Lat. Medium 500. Log. 299573

Antilog. 8993 (56 0 / // 3 50, ang. quæſ.

*Angulus autem latere minimo & medio comprehenſus non niſi præcognito reliquorum alterutro haberi poteſt, per regulam nempe præcedentem.*

Hacte-

Hactenus regulæ Trigonometriæ Planorum, exemplis sufficientibus illustratæ: ut sufficiant omnium vel angulorum vel laterum explorationi.

Verùm hîc practicus aliquis desiderabit explicationem demetiendæ alicujus altitudinis è duabus Stationibus, alterâ Altitudini propiore, alterâ ab eadem remotiore, in eandem cum fundamento altitudinis lineam horizontalem cadentibus; quæ dimensio est usitatissima, & vulgari Trigonometriâ perficitur ratione Sinus totius ad differentiam tangentium, angulorum observatorum complementis debitarum. Cum igitur hæc methodus ad logarithmos applicatu sit intricatissima, qnænam hîc expedita dimensio per logarithmos?

Respondeo, id commodè & expeditè fieri resolutione duorum Triangulorum, alterius Rectanguli, alterius Obtusanguli. Rectanguli latera rectum includentia sunt, Altitudo, & Distantia Stationis propioris ab eadem; hypotenusa, radius visorius in apicem altitudinis. Obtusanguli latera obliquum includentia sunt. radius visorius propioris Stationis jam dictus, & differentia Stationum, latus tertium, radius visorius è Statione remotiori. In hoc posteriori Triangulo dantur 1. angulus acutus in statione remotiori, 2. angulus obtusus, in statione propiori, complementum scilicet ibidem observati acuti ad 180 grad. 3. latus interceptum, hoc est distantia stationum. Datur itaq; & angulus tertius distantiæ stationum oppositus. [Et habetur simplici subtractione anguli statione secundâ observati ab angulo statione primâ observato.] Inquiritur autem latus angulo stationis remotio-

ris oppositum, hoc est, radius visorius ab oculo in stratione prima in apicem altitudinis: qui est hypotenusa Trianguli prioris. Ex hac igitur & angulo stationis primæ habetur altitudo promtissimè. Quin & utriusq; Trianguli complicati analysis logarithmica per unicam regulam compendiosissima est; nempe:

*Ab aggregato trium logarithmorum, ut 1. Distantiæ Stationum, 2. & 3. singulorum observatorum angulorum, subtractus logarithmus differentia eorundem angulorum, relinquit logarithmum altitudinis quæsitæ, si addatur altitudo fulcri instrumentarii.*

Sint anguli observati, in propiori quidem statione 49° 0′ in secunda 37 grad. distantia stationum 73 ulnarum. Ex his per tangentes supputatur altitudo (extra fulcrum instrumenti) ulnarum $163\frac{1547}{1841}$ .i. decaleptorum 8 4′ // Probemus hîc methodum nostram logarithmicam. Assumamus autem (ut unâ operâ adipiscamur decalepta) distantiam Stationum 75.0 scr.

| | | |
|---|---|---|
| 750. | Log. | 259027 |
| 37 gr. | Log. | 50780 |
| 49 gr. | Log. | 28142 |
| | | 337949 |
| Dif. ang. 12 gr. | Log. | 157064. Subtr. |
| | | 180885 |
| Proximè major | | 180911 (1638 .i. 163 uln. 8′ |
| Diff. | | 26. Diff. proximè majoris & minoris 61. |

Colligo: 61 — 10 — 26. f. 4′ 0″

Sint item anguli observati, in statione propiori 40° 0′ in remotiori 24 gr. 10 scr. Diff. igitur angulorum est 15 gr. 50 scr. differentia autem stationum fuit 268 partiū. Quæratur altitudo. 268. Log.

| | | |
|---|---|---|
| 268 | Log. | 361935 |
| 40 gr. | Log. | 44194 |
| 24. 10. ſcr. | L. | 89308 |
| 0 / | | 495437 |
| 1550 | Log. | 129887 |
| | | 365550 (258 cum ſemiſse. |

Tantundem etiam reperitur calculo vulgari per Tangentes.

*Memento autem his inventis altitudinibus addere altitudinem fulcri inſtrumentum ſuſtinentis, ut proveniat altitudo quæſita integra.*

# TRIGONOMETRIA SPHÆRICORUM.

Planorum regulas exemplis illuſtrare opus erat propter varias cautiones de Lateribus. Sphæricorum regulæ tot cautionibus & exemplis non indigent.

## I. RECTANGULORUM.

### IN TRIANGULO RECTANGULO *ſi quaratur*

### HYPOTENUSA.

E datis lateribus reliquis:

*Summa Antilogarithmorum utriuſq; lateris eſt antilogarithmus Hypotenuſæ.*

E latere alterutro & angulo huic lateri adjacente:

*Meſologarithmus lateris ſubtractus (coſitè, ſi opus) ab antilogarithmo anguli relinquit Meſologarithmum complementi Hypotenuſæ.*

E latere alterutro & angulo huic lateri oppositō:

*Logarithmus anguli subtractus à logarithmo lateris relinquit logarithmum hypotenusæ.*

Ex utroq; angulo acuto:

*Summa (Cossica, si res exigit) Mesologarithmorum utriusq; anguli est antilogarithmus Hypotenusæ.*

## Latus Angulo Recto Adiacens.

Ex angulo opposito & hypotenusa:

*Summa logarithmorum utriusq; Dati est logarithmus Quæsiti.*

*Hac regula promtè supputantur Declinationes partium Ecliptice.*

Ex angulo adjacente & hypotenusa:

*Summa (Cossica, si exigitur) antilogarithmi anguli & mesologarithmi hypotenusæ est mesologarithmus lateris quæsiti.*

*Hac regula supputantur Ascensiones Rectæ partium Ecliptice.*

Ex hypotenusa & latere reliquo:

*Antilogarithmus lateris subtractus ab antilogarithmo hypotenusæ relinquit antilogarithmum lateris quæsiti.*

E latere reliquo & angulo qui quæsito lateri adjacet.

*Summa (Cossica, si opus) Mesologarithmi lateris & Antimesologarithmi anguli, est logarithmus quæsiti.*

*Hac regula supputantur Differentiæ Ascensionales partium Ecliptice: Nam antimesologarithmus ille est mesologarithmus Elevationis Poli.*

E latere reliquo & angulo qui lateri quæsito opponitur:

*Summa*

*Summa (Cosica, si opus) logarithmi Lateris & Mesologarithmi Anguli est Mesologarithmus Quæsiti.*

Ex utroq; angulo acuto:

*Logarithmus anguli quæsito lateri adjacentis subtractus ab antilogarithmo anguli reliqui relinquit antilogarithmum lateris quæsiti.*

## ANGULUS ACUTUS.

Ex utroq; præter hypotenusam latere:

*Logarithmus lateris angulo quæsito adjacentis, defectivus, additus (Cosicè, si opus) Mesologarithmo lateris reliqui ostendit Mesologarithmum anguli Quæsiti.*

Ex hypotenusa & latere, quod quæsito angulo adjacet:

*Mesologarithmus hypotenusæ subtractus (Cosicè si requiritur, à mesologarithmo lateris relinquit Antilogarithmum anguli quæsiti.*

Ex hypotenusa & latere, quod angulo quæsito opponitur:

*Logarithmus hypotenusæ subtractus à logarithmo lateris relinquit logarithmum anguli quæsiti.*

Ex hypotenusa & angulo reliquo:

*Antilogarithmus hypotenusæ subtractus (Cosicè, si opus) ab Antimesologarithmo anguli relinquit Mesologarithmum Quæsiti.*

E latere opposito & angulo reliquo:

*Summa antilogarithmi Lateris & logarithmi Anguli est Antilogarithmus anguli quæsiti.*

E latere adjacente & angulo reliquo:

*Antilogarithmus lateris subtractus ab antilogarithmo anguli relinquit logarithmum anguli quæsiti.*

# II. OBLIQUANGULORUM;

## IN TRIANGULO SPHÆRICO OBLIQUANGULO

## *si quaratur*

### LATUS.

E lateribus reliquis & angulo ab illis comprehenso:

*Ex ignotorum angulorum alterutro in latus alterutrum notum demisso perpendiculo (sive id intra sive extra Triangulum cadat in latus continuatum) fiunt duo Triangula rectangula, quorum resolutione Quæsitum innotescit.*

E lateribus reliquis & angulo uni eorum oppositi:

*Demisso perpendiculo ex angulo alterutro ignoto in latus ignotum fiunt duo Triangula rectangula particulatim resolvenda ut prodeat Quæsitum.*

E duobus angulis & latere illis intercepto:

*Demisso perpendiculo ex angulorum datorum alterutro in latus vel quæsitum vel ignotum reliquum fiunt duo rectangula particulatim resolvenda.*

Vel: *Ab aggregato Mesologarithmi Semilateris, & Antilogarithmi semidifferentiæ angulorum, subtractus Antilogarithmus semisummæ angulorum, relinquit Mesologarithmum semisummæ laterum ignotorum. Deinde ab aggregato Mesologarithmi semilateris, & logarithmi semidifferentiæ datorum angulorum, subtractus logarithmus semisummæ eorundem relinquit Mesologarithmum semidifferentiæ ignotorum laterum. Hac laterum semi-*

*differentia semisummæ eorum detractæ patefacit latus ignotum minus; semisumma addita, majus.*

Dentur anguli, 48 47 & 32 41 42, Latus interceptum 78 grad. 41. scrupp. Semissis itaq; lateris est 39 gr. 20 scr. 30 sec. Semisumma angulorum 40 grad. 44 scr. 21 sec. Semidifferentia angulorum 8 grad. 2 scr. 39 sec. Quæratur laterum reliquorum alterutrum.

| ° ′ ″ | | |
|---|---|---|
| 39 20 30 | Mesolog. | 19881 + |
| 8 2 39 | Antilog. | 988 + |
| | Aggregat. | 20869 + |
| 40 44 21 | Antilog. | 27747 + |
| | Residuum | 6878 — Mesolog. semisummæ |

| ° ′ ″ | | | ° ′ ″ |
|---|---|---|---|
| 39 20 30 | Mesolog. | 19881 + | ignot. lat. 46 58 8 |
| 8 2 39 | Logarith. | 196658 + | |
| | Aggregat. | 216539 + | |
| 40 44 21 | Logar: | 42675 + | |
| | | 173864 + | Mesolog. semidiffræ ignot. Laterum 9 58 6 |
| | | | Lat. quæsitum minus 37 0 2 |
| | | | majus 56 56 10 |

## E duobus angulis & latere uni eorum oppositio:

*In Latus datis angulis interceptum (si opus sit, continuatum) ex angulo oppositio demittatur perpendiculum: & formabuntur duo Triangula rectangula, quorum resolutione Quæsitum innotescit.*

*Quod si alteri datorum angulorum opponatur latus notum, alteri latus quæsitum; logarithmus Anguli, dato lateri oppositi, subtractus à summa logarithmorum dati lateris & anguli quæsito lateri oppositi, relinquit logarithmum lateris quæsiti, si minus esse debet Quadrante, vel*

*complementi ejus ad 180 grad. si Quadrante debeat esse majus.*

Ex omnibus angulis:

Tres anguli assumantur ut tria latera (tantæ singula quantitatis, quantæ dati sunt anguli) sed pro angulo maximo sumatur ejus complementum ad duos rectos sive 180 gr. Quo facto per sequentium hîc regularum ultimam è tribus quasi lateribus exploretur angulus unus aut omnes: horum angulorum mensuræ erunt latera dati Trianguli quæsita; sed ita ut viciſſim anguli maximi inventi complementum ad 180 grad. pro respondente latere sumatur.

## ANGULUS

Ex angulis reliquis & latere illis intercepto: vel,
Ex angulis reliquis & latere uni eorum opposito:

*Hac utraq; Data etiam suprà habentur in explorando latere: proinde perpendiculum demittitur hîc planè ut ibidem.*

Vel, datis prioribus: *Ab aggregato primùm antimesologarithmi semianguli, & antilogarithmi semidifferentiæ crurum anguli, subtractus antilogarithmus semisummæ crurum eorundem relinquit Mesologarithmum semisummæ angulorum ignotorum. Deinde ab aggregato antimesologarithmi dicti, & logarithmi semidifferentia crurum subtractus logarithmus semisummæ crurum relinquit mesologarithmum semidifferentiæ ignotorum angulorum. Hæc angulorum semidifferentia semisummæ eorum detracta patefacit angulum quæsitum minorem; semisummæ addita, majorem.*

Detur

Detur angulus 48 47, latera sive crura ipsum comprehendentia 78 gr. 41 scr. & 37 gr. 0 scr. Ut semiangulus sit 24 gr. 23 scr. 30 sec. semisumma crurum 57 gr. 50 scr. 30 sec. Semidifferentia crurum 20 gr. 50 scrupp. 30 sec. Quæruntur anguli reliqui hac praxi:

| | | | |
|---|---|---|---|
| | | o / // | |
| 24 23 30 | Antimes. | 79088— | |
| 20 50 20 | Antilog. | 6767+ | |
| | Aggregat. | 72321— | |
| 57 50 30 | Antilogar. | 63063+ | |
| | Residuum | 135384— | Mesolog. semissummæ |
| | | | o / // |
| | | | ignotor. ang. 75 31 12 |
| 24 23 30 | Antimes. | 79088— | |
| 20 50 30 | Logar. | 103342+ | |
| | Aggreg. | 24254+ | |
| 57 50 30 | Logarith. | 16655+ | |
| | Residuum | 7599+ | Mesolog. semidiffræ |
| | | | o / // |
| | | | ignotor. ang. 42 49 30 |
| | | | Ang. quæsit. minor 32 41 42 |
| | | | major 118 20 42 |

## E duobus lateribus & angulo illis comprehenso:

*Ex ignotorum angulorum alterutro in latus angulo dato adjacens (continuatum, si sit opus) demisso perpendiculo fiunt duo Triangula rectangula particulatim resolvenda ut prodeat Quæsitum.*

## E duobus lateribus & angulo uni eorum opposito:

*Ex angulo quæsito in latus oppositum demisso perpendiculo fiunt duo Triangula rectangula viam Quæsito aperientia.*

*Quod si tamen alteri datorum laterum opponatur angulus datus, alteri quæsitus; Logarithmus lateris anguli dato oppositi subtractus à summa logarithmorum dati anguli & lateris anguli quæsiti oppositi relinquit logarithmum anguli quæsiti, si acutus esse debet, vel ejus ad 180 gr. complementi, si debet esse obtusus,*

E tribus lateribus:

*Duorum Laterum quæsitum angulum comprehendentium differentia addatur & subtrahatur Lateri tertio: ab aggregato logarithmorum semisumma & semiresidui auferatur aggregatum logarithmorum duobus lateribus supradictis (angulum quæsitum comprehendentibus) competentium: Semiresiduum est logarithmus semianguli quæsiti.*

Dentur latera, 72 21 45, 35 36 0, & 47 40 0. Quæritur angulus prioribus duobus comprehensus,

| | | | |
|---|---|---|---|
| | 72 21 45 | Logarith. | 4815 |
| | 35 36 0 | Logarith. | 54107 |
| Diff. Lat. | 36 45 45 | Aggreg. | 58922 |
| L. tert. | 47 40 0 | | |
| Summa | 84 25 45 | | |
| Semiss. | 42 12 52 | — Logar | 39763 |
| Diff. | 10 54 15 | | |
| Semiss. | 5 27 7 | — Logar. | 235374 |
| | | Aggreg. | 275137 |
| | | | 58922 |
| | Residuú | 216215 | |
| | Semiss. | 108107 | (19 49 46 |

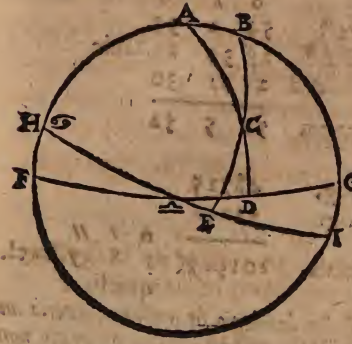
Igitur ang. quæs. totus 39 39 32.

Atq; hæ fuerunt Regulæ Trigonometriæ Logarithmicæ.

Quia

Quia verò regulæ Planorum tot exemplis declaratæ sunt, proinde ut usus etiam Sphæricarum illucescat. uno atq; altero eas exemplo Astronomico illustrabimus.

1. *Data stellæ alicujus longitudine & latitudine Declinationem ejusdem & Ascensionem rectam logarithmicè indagare.*




In præsenti schemate sit Circulus A B G Colurus solstitiorum: F G Æquator; cujus polus A: H I Ecliptica; cujus polus B: Sitq; stella C; exempli gratia Arcturus: per quam è polis descendant A D Circulus declinationis, monstrans stellę declinationem C D, & Ascensionem rectam D; B E Circulus latitudinis, monstrans stellæ latitudinem C E & Longitudinem E. Consideretur autem Triangulum A B C. In quo sanè semper dantur duo latera, A B distantia polorum, B C complementum latitudinis, cum angulo comprehenso B, quem mensurat Ecliptic æ arcus H E puncto Solstitiali H & stellæ longitudine E interceptus. Quæritur autem latus tertium A C, quod est complementum declinationis C D, & angulus B A C quem mensurat Æquatoris arcus D G, qui est Asc. Recta Circulo Declinationum & Coluro Solstitiorum intercepta. Ex angulorum igitur ignotorum alterutro cogitetur demissum perpendiculum in latus oppositum, (hoc loco continuatum) ut fiant duo Triangula rectangula, quorum particulari resolutione Quæsita innotescunt.

Sit ad completum Junium Anni 1634. supputanda Declinatio, &c. Arcturi, præsuppositâ Obliquitate Ecli-

Ecliptiæ Tychonicâ. Longitudo hujus Stellæ ad datum tempus juxta Tychonem est 19. gr. 8 min. ♎ cum latitudine 31 gr. 2 min. 30 sec. Bor. Est igitur latus BC 58 gr. 57 min. 30 sec. & angulus CBG 70 gr. 52 min.

| | | | | | |
|---|---|---|---|---|---|
| ° | ′ | ″ | | | |
| 70 | 52 | 0 | Logar. | 5683. | Antilog. 111545+ |
| 58 | 57 | 30 | Logar. | 15456. | Mesolog. 50775— |
| | | | Log. perpendiculi | 21139 | Mesolog. 60770+ |

| | | | | |
|---|---|---|---|---|
| | ° | ′ | ″ | |
| Itaq; perpendiculum est | 54 | 2 | 34 | |
| Et continuatio lateris AB | 28 | 34 | 22. | Huic |
| adde ipsum latus AB | 23 | 31 | 30 | |
| Aggregatum | 52 | 5 | 52 | |

| | | | | | |
|---|---|---|---|---|---|
| ° | ′ | ″ | | | |
| 52 | 5 | 52 | Antilog. | 48725 | |
| 54 | 2 | 34 | Antilog. | 53242 | |
| | | | Logar. Declinationis | 101967 | ( 21 8 37. Decl. quæsita. |

*Verum autem inventa stellæ declinatio sit australis, triteria an borealis, docentur in Astronomia. Arcturi quidem declinatio non dubium quin sit borealis, cum latitudo ejus sit borealis & longè major totâ Obliquitate Ecliptiæ.*

| | | | | | |
|---|---|---|---|---|---|
| ° | ′ | ″ | | | |
| Porrò: 52 | 5 | 52 | Logar. | 23690— | |
| Perpend. 54 | 2 | 34 | Mesol. | 32102— | |
| | | | Mesol. | 55792— | ( 60 12 49 subtr. |
| | | | à trib. hoc loco quadrantib. | | 270 0 0 |
| | | | Restat Asc. Recta quæsita | | 209 47 11 |

2. *Datâ declinatione stellæ cum Elevatione Poli, Differentiam stellæ Ascensionalem & inde Ascensionem vel Desc. obliquam investigare.*

Differentia Ascensionalis præsupponit Triangulum sphæricum rectangulum, cujus hypotenusa est arcus horizontis inter æquatorem & orientem vel occiden-

occidentem stellam interceptus : latera reliqua sunt, 1. Perpendiculum è stella in æquatorem, hoc est, declinatio stellæ. 2. Arcus æquatoris hoc perpendiculo & puncto æquatoris oriente interceptus, hoc est, ipsa differentia Ascensionalis. Dantur in hoc Triangulo semper 1. Angulus horizontis & æquatoris (hoc est Elevatio æquatoris) 2. dictum perpendiculum, sive declinatio stellæ tanquam latus huic angulo oppositum.

Sit quærenda differentia ascensionalis Arcturi sub Elevatione Poli 54 gr. 23 min.

| | | |
|---|---|---|
| Antimesolog. anguli | 33356 — | |
| Mesolog. declinat. | 95001 + | |
| Logar. Diff. Ascens. | 61645 + | (32 40 25 Diff. Ascensionalis quæsita. |

Hæc diff. asc. subtracta (quia declinatio borealis est) ab Ascensione Arcturi Recta relinquit ejus Asc. Obliquam : addita verò, prodit obliquam Descensionem.

| | o | ′ | ″ |
|---|---|---|---|
| Asc. R. Arcturi erat | 209 | 47 | 11 |
| Diff. Asc. | 32 | 40 | 25 |
| Asc. Arcturi Obliqua | 177 | 6 | 46 |
| Desc. Arcturi Obliqua | 242 | 27 | 36 |

Contraria est additio & subtractio, si stella habeat declinationem australem.

*Sed de his & aliis in Ascensionum negocio cautionibus propriè docetur in Doctrina Spharica.*

Restat, ut subijciantur logarithmorum Tabulæ.

*Quas antequam, Lector, usibus adhibeas, emendari velim sphalmata sequentia.*

*In Tabula prima.*

Num. absoluto 1000 pro finalibus 59 lege potius 58.
Num. 1237 restitue marginale 37 pro 27.

Num.

Num. 3725 pro final. 571 lege 751.
4010 372 379
4533 124 120 fine pag. B iiij
5411 315 415
5508 538 638
5639 387 287
6385 402 302

*In Tabula Secunda.*

Pag. cui titulus: 5 gr. 30/in calce pro gr. 87 lege 84.

| Grad. | ′ | | pro final. | lege: | |
|---|---|---|---|---|---|
| 10 | 26 | Logarith. | 71 | 75 | |
| 11 | 18 | Logarith. | 96 | 91 | |
| 14 | 23 | Mesol. diff. | 28 | 20 | |
| 21 | 4 | Mesolog. | 39 | 99 | |
| 21 | 29 | Mesolog. | 6 | 8 | |
| 2358 | | Mesolog. | 5 | 3 | |
| 24 | 53 | Logar. | 9566 | 6566 | ′ ″ |
| 26 | 29 | Mesolog. | 27. | 72 | ibid. intra 26 & 27 |
| | | diff. | 11 | 12 | |
| 30 | 1 | Logar. | 46 | 64 | |
| 52 | 25 | Logar. diff. | 3 | 4 | |
| 50 | 49 | Logar. diff. | 3 | 4 | |
| 44 | 37 | Logar. initial. | 25 | 35 | |

*In Tabula Tertia.*

| ′ | ″ | | | |
|---|---|---|---|---|
| 0 | 15 | pro initiali | 65 lege | 95 |
| 11 | 30 | pro final. | 32 | 23 |
| 29 | 29 | | 79 | 76 |
| 40 | 7 | | 86 | 80 |
| 40 | 59 | | 643 | 943 |
| 41 | 57 | | 912 | 612 |

59 in calce pro Mesol: 14. lege 15.

*In Tabula Quarta:*

Pag. L iij repone scrupula marginalia 46 pro 36. ″ ″
Et L iiij 30 pro 40.

Eadem pag. scrup. 19 26 pro 508 lege 598.
′ ″

deniq; columellâ 1 15 24 deest initiali num. 4. leg. 24.

Item pag. 2. Appendicis post Tabulas, lin. 3. numeros illos duos posteriores: 460517. 690175 dele, non enim in hujus Problematis praxi illis indigemus.

*Præter hæc uti spero, numerale nullum offendes.*

# TABULA LOGARITHMICA PRIMA

continens

# LOGARITHMOS

numerorum absolutorum

ab 1. ad 10000. ordine succedentium,

supputatos

á

PETRO CRÜGERO.

A

| | 0 | 100 | 200 | 300 | 400 | 500 |
|---|---|---|---|---|---|---|
| 0 | Infinit. | 460517 | 391202 | 350656 | 321887 | 299573 |
| 1 | 921034 | 459522 | 390703 | 350323 | 1638 | 9373 |
| 2 | 851719 | 458537 | 390207 | 349991 | 1389 | 9174 |
| 3 | 811173 | 457561 | 389717 | 349661 | 1140 | 8975 |
| 4 | 782405 | 456595 | 389222 | 349331 | 320892 | 298776 |
| 5 | 760090 | 455638 | 8733 | 9003 | 0645 | 8578 |
| 6 | 741858 | 454690 | 8246 | 8675 | 0399 | 8380 |
| 7 | 726443 | 453751 | 387762 | 348349 | 320153 | 298183 |
| 8 | 713090 | 452821 | 7280 | 8024 | 319907 | 7986 |
| 9 | 701312 | 451899 | 6801 | 7700 | 319662 | 7789 |
| 10 | 690775 | 450986 | 386323 | 347377 | 319418 | 297593 |
| 11 | 681244 | 450081 | 5848 | 7055 | 9175 | 7397 |
| 12 | 672543 | 449184 | 5375 | 6734 | 8932 | 7202 |
| 13 | 664539 | 448295 | 384905 | 346414 | 318689 | 297006 |
| 14 | 657128 | 447414 | 4436 | 6095 | 8447 | 6812 |
| 15 | 650229 | 446540 | 3970 | 5777 | 8206 | 6617 |
| 16 | 643775 | 445675 | 383506 | 345460 | 317965 | 296423 |
| 17 | 637713 | 444817 | 3044 | 5144 | 7725 | 6230 |
| 18 | 631997 | 443966 | 2584 | 4829 | 7486 | 6036 |
| 19 | 626590 | 443122 | 382127 | 344515 | 317247 | 295844 |
| 20 | 621461 | 442285 | 1671 | 4202 | 7008 | 5651 |
| 21 | 616582 | 441455 | 1218 | 3890 | 6771 | 5459 |
| 22 | 611930 | 440632 | 380766 | 343579 | 316533 | 295267 |
| 23 | 607485 | 439816 | 380317 | 3269 | 6297 | 5076 |
| 24 | 603229 | 439006 | 379869 | 2960 | 6061 | 4885 |
| 25 | 599146 | 438203 | 379424 | 342651 | 315825 | 294694 |
| 26 | 595224 | 437406 | 8980 | 2344 | 5591 | 4504 |
| 27 | 591450 | 436615 | 8539 | 2038 | 5356 | 4314 |
| 28 | 587814 | 435831 | 378099 | 341733 | 315122 | 294124 |
| 29 | 584304 | 435053 | 7662 | 1428 | 4888 | 3935 |
| 30 | 580914 | 434281 | 7226 | 1125 | 4655 | 3746 |
| 31 | 577635 | 433514 | 376792 | 340822 | 314423 | 293558 |
| 32 | 574460 | 432754 | 6360 | 0520 | 4191 | 3370 |
| 33 | 571383 | 431999 | 5930 | 0220 | 3960 | 3182 |

Digitized by Google

| | 0 | 100 | 200 | 300 | 400 | 500 |
|---|---|---|---|---|---|---|
| 33 | 571383 | 431999 | 375930 | 340220 | 313960 | 293182 |
| 34 | 568398 | 431250 | 5502 | 339920 | 3730 | 2994 |
| 35 | 565499 | 430506 | 5075 | 9621 | 3499 | 2807 |
| 36 | 562682 | 429768 | 4651 | 9323 | 3270 | 2621 |
| 37 | 559942 | 429036 | 374228 | 339026 | 313041 | 292434 |
| 38 | 557275 | 8309 | 3807 | 8729 | 2812 | 2248 |
| 39 | 554678 | 7587 | 3388 | 8434 | 2584 | 2062 |
| 40 | 552146 | 426870 | 372970 | 338139 | 312356 | 291877 |
| 41 | 549677 | 6158 | 2554 | 7846 | 2129 | 1692 |
| 42 | 547267 | 5451 | 2140 | 7553 | 1903 | 1507 |
| 43 | 544914 | 424750 | 371728 | 337261 | 311677 | 291323 |
| 44 | 542615 | 4053 | 1317 | 6970 | 1452 | 1139 |
| 45 | 540368 | 3361 | 0908 | 6680 | 1227 | 0955 |
| 46 | 538170 | 422673 | 370501 | 336390 | 311002 | 290772 |
| 47 | 536019 | 1991 | 370095 | 6101 | 0778 | 0589 |
| 48 | 533914 | 1313 | 369691 | 5814 | 0555 | 0406 |
| 49 | 531852 | 420639 | 369289 | 335527 | 310332 | 290224 |
| 50 | 529832 | 419971 | 8888 | 5241 | 310109 | 290042 |
| 51 | 527851 | 419306 | 8489 | 4955 | 309887 | 289860 |
| 52 | 525910 | 418646 | 368091 | 334671 | 309666 | 289679 |
| 53 | 524005 | 7990 | 7695 | 4387 | 9445 | 9498 |
| 54 | 522136 | 7339 | 7301 | 4104 | 9224 | 9318 |
| 55 | 520301 | 416691 | 366908 | 333822 | 309004 | 289137 |
| 56 | 518499 | 6048 | 6516 | 3541 | 8785 | 8957 |
| 57 | 516729 | 5409 | 6126 | 3260 | 8566 | 8777 |
| 58 | 514990 | 414775 | 365738 | 332981 | 308347 | 288598 |
| 59 | 513280 | 4144 | 5351 | 2702 | 8129 | 8419 |
| 60 | 511600 | 3517 | 4966 | 2424 | 7911 | 8240 |
| 61 | 509947 | 412894 | 364582 | 332146 | 307694 | 288062 |
| 62 | 508320 | 2274 | 4200 | 1870 | 7477 | 7884 |
| 63 | 506720 | 1659 | 3819 | 1594 | 7261 | 7706 |
| 64 | 505146 | 411047 | 363439 | 331319 | 307046 | 287529 |
| 65 | 503595 | 410439 | 3061 | 1044 | 6830 | 7351 |
| 66 | 502068 | 409835 | 2684 | 0771 | 6615 | 7175 |

| | 0 | 100 | 200 | 300 | 400 | 500 |
|---|---|---|---|---|---|---|
| 66 | 502068 | 409835 | 362684 | 330771 | 306615 | 287175 |
| 67 | 500565 | 9235 | 2309 | 330498 | 6401 | 6998 |
| 68 | 499083 | 8638 | 1935 | 330226 | 6187 | 6822 |
| 69 | 497623 | 8044 | 1563 | 329954 | 5974 | 6646 |
| 70 | 496184 | 407454 | 361192 | 329684 | 305761 | 286470 |
| 71 | 4766 | 6868 | 0822 | 9414 | 5548 | 6295 |
| 72 | 3367 | 6285 | 0454 | 9145 | 5336 | 6120 |
| 73 | 491988 | 405705 | 360087 | 328876 | 305124 | 285945 |
| 74 | 490627 | 5128 | 359721 | 8608 | 4913 | 5771 |
| 75 | 489285 | 4555 | 9357 | 8341 | 4702 | 5597 |
| 76 | 487961 | 403986 | 358994 | 328075 | 304492 | 285423 |
| 77 | 6653 | 3419 | 8632 | 7809 | 4282 | 5250 |
| 78 | 5363 | 2856 | 8272 | 7545 | 4073 | 5077 |
| 79 | 484089 | 402295 | 357913 | 327280 | 303864 | 284904 |
| 80 | 2831 | 1738 | 7555 | 7017 | 3655 | 4731 |
| 81 | 1589 | 1184 | 7198 | 6754 | 3447 | 4559 |
| 82 | 480362 | 400633 | 356843 | 326492 | 303240 | 284387 |
| 83 | 479150 | 400085 | 6489 | 6230 | 3032 | 4215 |
| 84 | 477952 | 399540 | 6137 | 5970 | 2825 | 4044 |
| 85 | 476769 | 398998 | 355785 | 325710 | 302619 | 283873 |
| 86 | 5599 | 8459 | 5435 | 5450 | 2413 | 3702 |
| 87 | 4443 | 7923 | 5086 | 5191 | 2208 | 3532 |
| 88 | 473300 | 397390 | 354738 | 324933 | 302002 | 283361 |
| 89 | 2170 | 6859 | 4391 | 4676 | 1798 | 3191 |
| 90 | 471053 | 6332 | 4046 | 4419 | 1593 | 3022 |
| 91 | 469948 | 395807 | 353702 | 324163 | 301390 | 282852 |
| 92 | 8855 | 5284 | 3359 | 3908 | 1186 | 2683 |
| 93 | 7774 | 4765 | 3017 | 3653 | 0983 | 2515 |
| 94 | 466705 | 394248 | 352676 | 323399 | 300780 | 282346 |
| 95 | 5646 | 3734 | 2336 | 3145 | 0578 | 2178 |
| 96 | 4599 | 3222 | 1998 | 2893 | 0376 | 2010 |
| 97 | 463563 | 392714 | 351661 | 322640 | 300175 | 281842 |
| 98 | 2537 | 2207 | 1325 | 2389 | 299974 | 1675 |
| 99 | 1522 | 1703 | 0990 | 2138 | 299773 | 1508 |

Digitized by Google

| | 600 | 700 | 800 | 900 | 1000 | 1100 |
|---|---|---|---|---|---|---|
| 0 | 281341 | 265926 | 252573 | 240795 | 230259 | 220727 |
| 1 | 1175 | 5783 | 2448 | 0684 | 230158 | 0636 |
| 2 | 1008 | 5641 | 2323 | 0573 | 230058 | 0545 |
| 3 | 0842 | 5498 | 2199 | 0462 | 229958 | 0454 |
| 4 | 280677 | 265356 | 252074 | 240351 | 229858 | 220363 |
| 5 | 0511 | 5214 | 1950 | 0241 | 9758 | 0272 |
| 6 | 0346 | 5072 | 1826 | 0130 | 9659 | 0182 |
| 7 | 280181 | 264931 | 251702 | 240020 | 229560 | 220092 |
| 8 | 280017 | 4790 | 1578 | 239910 | 9461 | 220002 |
| 9 | 279852 | 4648 | 1454 | 239800 | 9362 | 219912 |
| 10 | 279688 | 264508 | 251331 | 239690 | 229263 | 219822 |
| 11 | 9524 | 4367 | 1207 | 9580 | 9164 | 9732 |
| 12 | 9361 | 4226 | 1084 | 9470 | 9065 | 9642 |
| 13 | 279198 | 264086 | 250961 | 239360 | 228967 | 219552 |
| 14 | 9035 | 3946 | 0838 | 9251 | 8868 | 9462 |
| 15 | 8872 | 3806 | 0715 | 9142 | 8770 | 9372 |
| 16 | 278709 | 263666 | 250593 | 239032 | 228671 | 219282 |
| 17 | 8547 | 3526 | 0470 | 8923 | 8573 | 9193 |
| 18 | 8385 | 3387 | 0348 | 8814 | 8474 | 9104 |
| 19 | 278223 | 263248 | 250226 | 238705 | 228376 | 219015 |
| 20 | 8062 | 3109 | 250104 | 8597 | 8278 | 8926 |
| 21 | 7901 | 2970 | 249982 | 8488 | 8180 | 8837 |
| 22 | 277740 | 262832 | 249860 | 238379 | 228082 | 218748 |
| 23 | 7579 | 2693 | 9738 | 8271 | 7984 | 8659 |
| 24 | 7419 | 2555 | 9617 | 8163 | 7886 | 8570 |
| 25 | 277259 | 262417 | 249496 | 238055 | 227789 | 218481 |
| 26 | 7099 | 2279 | 9375 | 7947 | 7691 | 8392 |
| 27 | 6939 | 2141 | 9254 | 7839 | 7594 | 8303 |
| 28 | 276780 | 262004 | 249133 | 237731 | 227497 | 218214 |
| 29 | 6621 | 1867 | 9012 | 7623 | 7400 | 8125 |
| 30 | 6462 | 1730 | 8891 | 7516 | 7303 | 8037 |
| 31 | 276303 | 261593 | 248771 | 237408 | 227206 | 217948 |
| 32 | 6145 | 1456 | 8651 | 7301 | 7109 | 7860 |
| 33 | 5987 | 1319 | 8531 | 7194 | 7012 | 7772 |

| | 600 | 700 | 800 | 900 | 1000 | 1100 |
|---|---|---|---|---|---|---|
| 33 | 275987 | 261319 | 248531 | 237194 | 227012 | 217772 |
| 34 | 5829 | 1183 | 8411 | 7086 | 6916 | 7684 |
| 35 | 5672 | 1047 | 8291 | 6979 | 6819 | 7596 |
| 36 | 5514 | 0911 | 8171 | 6872 | 6722 | 7508 |
| 37 | 275357 | 260775 | 248052 | 236766 | 226625 | 217420 |
| 38 | 5200 | 0640 | 7932 | 6659 | 6529 | 7332 |
| 39 | 5044 | 0504 | 7813 | 6552 | 6432 | 7244 |
| 40 | 274887 | 260369 | 247694 | 236446 | 226336 | 217156 |
| 41 | 4731 | 0234 | 7575 | 6340 | 6240 | 7068 |
| 42 | 4575 | 260099 | 7456 | 6233 | 6144 | 6980 |
| 43 | 274420 | 259964 | 247337 | 236127 | 226048 | 216892 |
| 44 | 4264 | 9830 | 7219 | 6021 | 5952 | 6804 |
| 45 | 4109 | 9696 | 7100 | 5916 | 5856 | 6717 |
| 46 | 273954 | 259561 | 246982 | 235810 | 225760 | 216630 |
| 47 | 3799 | 9428 | 6864 | 5704 | 5664 | 6543 |
| 48 | 3645 | 9296 | 6746 | 5599 | 5569 | 6456 |
| 49 | 273491 | 259160 | 246628 | 235493 | 225474 | 216369 |
| 50 | 3337 | 9027 | 6510 | 5388 | 5379 | 6282 |
| 51 | 3183 | 8893 | 6393 | 5283 | 5284 | 6195 |
| 52 | 273030 | 258760 | 246275 | 235178 | 225189 | 216108 |
| 53 | 2876 | 8627 | 6158 | 5073 | 5094 | 6021 |
| 54 | 2723 | 8495 | 6041 | 4968 | 4999 | 5934 |
| 55 | 272571 | 258362 | 245924 | 234863 | 224904 | 215847 |
| 56 | 2418 | 8230 | 5807 | 4757 | 4809 | 5760 |
| 57 | 2266 | 8098 | 5690 | 4654 | 4714 | 5674 |
| 58 | 272114 | 257966 | 245574 | 234549 | 224620 | 215588 |
| 59 | 1962 | 7834 | 5457 | 4445 | 4526 | 5502 |
| 60 | 1810 | 7702 | 5341 | 4341 | 4432 | 5416 |
| 61 | 271659 | 257571 | 245225 | 234237 | 224338 | 215330 |
| 62 | 1507 | 7439 | 5109 | 4133 | 4244 | 5244 |
| 63 | 1357 | 7308 | 4993 | 4029 | 4150 | 5158 |
| 64 | 271206 | 257177 | 244877 | 233925 | 224056 | 215072 |
| 65 | 1055 | 7046 | 4761 | 3821 | 3962 | 4986 |
| 66 | 0905 | 6916 | 4646 | 3718 | 3868 | 4900 |

Digitized by Google

| | 600 | 700 | 800 | 900 | 1000 | 1100 |
|---|---|---|---|---|---|---|
| 66 | 270905 | 256916 | 244646 | 233718 | 223868 | 214900 |
| 67 | 0755 | 6785 | 4530 | 3614 | 3774 | 4814 |
| 68 | 0605 | 6655 | 4415 | 3511 | 3680 | 4728 |
| 69 | 0456 | 6525 | 4300 | 3408 | 3586 | 4643 |
| 70 | 270306 | 256395 | 244185 | 233304 | 223493 | 214558 |
| 71 | 0157 | 6265 | 4070 | 3201 | 3400 | 4472 |
| 72 | 270008 | 6136 | 3955 | 3098 | 3306 | 4387 |
| 73 | 269859 | 256006 | 243840 | 232996 | 223213 | 214302 |
| 74 | 9711 | 5877 | 3726 | 2893 | 3120 | 4217 |
| 75 | 9563 | 5748 | 3612 | 2790 | 3027 | 4132 |
| 76 | 269415 | 255619 | 243497 | 232688 | 222934 | 214047 |
| 77 | 9267 | 5490 | 3383 | 2585 | 2841 | 3962 |
| 78 | 9119 | 5361 | 3266 | 2483 | 2748 | 3877 |
| 79 | 268972 | 255233 | 243156 | 232381 | 222655 | 213792 |
| 80 | 8825 | 5105 | 3042 | 2279 | 2561 | 3707 |
| 81 | 8678 | 4976 | 2928 | 2177 | 2469 | 3622 |
| 82 | 268531 | 254849 | 242815 | 232075 | 222377 | 213537 |
| 83 | 8385 | 4721 | 2701 | 1973 | 2285 | 3452 |
| 84 | 8238 | 4593 | 2588 | 1871 | 2193 | 3367 |
| 85 | 268092 | 254466 | 242475 | 231770 | 222101 | 213283 |
| 86 | 7946 | 4338 | 2362 | 1668 | 2009 | 3199 |
| 87 | 7801 | 4211 | 2250 | 1567 | 1917 | 3115 |
| 88 | 267655 | 254084 | 242137 | 231466 | 221825 | 213031 |
| 89 | 7510 | 3957 | 2024 | 1365 | 1733 | 2947 |
| 90 | 7365 | 3831 | 1912 | 1264 | 1641 | 2863 |
| 91 | 267220 | 253704 | 241800 | 231163 | 221549 | 212779 |
| 92 | 7075 | 3578 | 1687 | 1062 | 1457 | 2695 |
| 93 | 6931 | 3452 | 1575 | 0961 | 1365 | 2611 |
| 94 | 266787 | 253326 | 241463 | 230860 | 221273 | 212527 |
| 95 | 6643 | 3200 | 1352 | 0760 | 1182 | 2443 |
| 96 | 6499 | 3074 | 1240 | 0659 | 1091 | 2359 |
| 97 | 266355 | 252949 | 241128 | 230559 | 221000 | 212257 |
| 98 | 6212 | 2823 | 1017 | 0459 | 0909 | 2192 |
| 99 | 6069 | 2698 | 0906 | 0359 | 0818 | 2109 |

| | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 |
|---|---|---|---|---|---|---|
| 0 | 212026 | 204024 | 196611 | 189712 | 183258 | 177196 |
| 1 | 1943 | 3947 | 6540 | 9645 | 3195 | 7137 |
| 2 | 1860 | 3870 | 6468 | 9578 | 3132 | 7078 |
| 3 | 1777 | 3793 | 6397 | 9511 | 3069 | 7019 |
| 4 | 211694 | 203716 | 196325 | 189444 | 183007 | 176960 |
| 5 | 1611 | 3639 | 6254 | 9377 | 2945 | 6901 |
| 6 | 1528 | 3562 | 6183 | 9311 | 2883 | 6842 |
| 7 | 211445 | 203485 | 196112 | 189245 | 182821 | 176783 |
| 8 | 1362 | 3408 | 6041 | 9179 | 2759 | 6725 |
| 9 | 1279 | 3332 | 5970 | 9113 | 2697 | 6667 |
| 10 | 211196 | 203256 | 195899 | 189047 | 182635 | 176609 |
| 11 | 1113 | 3180 | 5828 | 8981 | 2573 | 6550 |
| 12 | 1030 | 3104 | 5757 | 8915 | 2511 | 6491 |
| 13 | 210947 | 203028 | 195687 | 188849 | 182449 | 176432 |
| 14 | 0865 | 2952 | 5616 | 8783 | 2387 | 6374 |
| 15 | 0783 | 2876 | 5545 | 8717 | 2325 | 6316 |
| 16 | 210701 | 202800 | 195474 | 188651 | 182263 | 176258 |
| 17 | 0619 | 2724 | 5404 | 8585 | 2201 | 6200 |
| 18 | 0537 | 2648 | 5333 | 8519 | 2139 | 6142 |
| 19 | 210455 | 202572 | 195263 | 188453 | 182077 | 176084 |
| 20 | 0373 | 2496 | 5193 | 8387 | 2016 | 6026 |
| 21 | 0291 | 2420 | 5122 | 8321 | 1954 | 5968 |
| 22 | 210209 | 202344 | 195051 | 188255 | 181892 | 175910 |
| 23 | 0127 | 2268 | 4981 | 8189 | 1830 | 5852 |
| 24 | 210045 | 2192 | 4911 | 8123 | 1768 | 5794 |
| 25 | 209963 | 202116 | 194841 | 188057 | 181706 | 175736 |
| 26 | 9881 | 2041 | 4771 | 7992 | 1644 | 5678 |
| 27 | 9800 | 1966 | 4701 | 7927 | 1583 | 5620 |
| 28 | 209719 | 201891 | 194631 | 187862 | 181522 | 175562 |
| 29 | 9638 | 1816 | 4561 | 7797 | 1461 | 5504 |
| 30 | 9557 | 1741 | 4491 | 7732 | 1400 | 5446 |
| 31 | 209476 | 201666 | 194421 | 187666 | 181338 | 175388 |
| 32 | 9395 | 1591 | 4351 | 7600 | 1277 | 5330 |
| 33 | 9314 | 1516 | 4281 | 7535 | 1216 | 5272 |

Digitized by Google

| | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 |
|---|---|---|---|---|---|---|
| 33 | 209314 | 201516 | 194281 | 187535 | 181216 | 175272 |
| 34 | 9233 | 1441 | 4211 | 7470 | 1155 | 5214 |
| 35 | 9152 | 1366 | 4141 | 7405 | 1094 | 5156 |
| 36 | 9071 | 1291 | 4071 | 7340 | 1033 | 5098 |
| 37 | 208990 | 201216 | 194001 | 187275 | 180972 | 175041 |
| 38 | 8909 | 1141 | 3932 | 7210 | 0911 | 4984 |
| 39 | 8828 | 1066 | 3863 | 7145 | 0850 | 4927 |
| 40 | 208747 | 200991 | 193794 | 187080 | 180789 | 174870 |
| 41 | 8666 | 0916 | 3724 | 7015 | 0728 | 4812 |
| 42 | 8585 | 0841 | 3654 | 6950 | 0667 | 4754 |
| 43 | 208504 | 200766 | 193585 | 186885 | 180606 | 174696 |
| 44 | 8424 | 0692 | 3516 | 6820 | 0545 | 4639 |
| 45 | 8344 | 0618 | 3447 | 6755 | 0484 | 4582 |
| 46 | 208264 | 200544 | 193378 | 186690 | 180423 | 174525 |
| 47 | 8184 | 0470 | 3309 | 6625 | 0362 | 4468 |
| 48 | 8104 | 0396 | 3240 | 6561 | 0301 | 4411 |
| 49 | 208024 | 200322 | 193171 | 186497 | 180241 | 174354 |
| 50 | 7944 | 0248 | 3102 | 6433 | 0181 | 4297 |
| 51 | 7864 | 0174 | 3033 | 6368 | 0120 | 4240 |
| 52 | 207784 | 200100 | 192964 | 186303 | 180059 | 174183 |
| 53 | 7704 | 200026 | 2895 | 6238 | 179998 | 4126 |
| 54 | 7624 | 199952 | 2826 | 6174 | 9937 | 4069 |
| 55 | 207544 | 199878 | 192757 | 186110 | 179877 | 174012 |
| 56 | 7464 | 9804 | 2688 | 6046 | 9817 | 3955 |
| 57 | 7384 | 9730 | 2619 | 5982 | 9757 | 3898 |
| 58 | 207305 | 199656 | 192551 | 185918 | 179697 | 173841 |
| 59 | 7226 | 9583 | 2483 | 5854 | 9637 | 3784 |
| 60 | 7147 | 9510 | 2415 | 5790 | 9577 | 3727 |
| 61 | 207068 | 199436 | 192346 | 185726 | 179516 | 173670 |
| 62 | 6989 | 9363 | 2277 | 5662 | 9456 | 3613 |
| 63 | 6910 | 9289 | 2208 | 5598 | 9396 | 3556 |
| 64 | 206831 | 199216 | 192140 | 185534 | 179336 | 173499 |
| 65 | 6752 | 9143 | 2072 | 5470 | 9276 | 3442 |
| 66 | 6673 | 9070 | 2004 | 5406 | 9216 | 3385 |

| | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 |
|---|---|---|---|---|---|---|
| 66 | 206673 | 199070 | 192004 | 185406 | 179216 | 173385 |
| 67 | 6594 | 8997 | 1936 | 5342 | 9156 | 3328 |
| 68 | 6515 | 8924 | 1868 | 5278 | 9096 | 3272 |
| 69 | 6436 | 8851 | 1800 | 5214 | 9036 | 3216 |
| 70 | 206357 | 198778 | 191732 | 185151 | 178976 | 173160 |
| 71 | 6278 | 8705 | 1664 | 5087 | 8916 | 3103 |
| 72 | 6199 | 8632 | 1596 | 5023 | 8856 | 3046 |
| 73 | 206120 | 198559 | 191528 | 184959 | 178796 | 172989 |
| 74 | 6041 | 8486 | 1460 | 4895 | 8736 | 2933 |
| 75 | 5962 | 8413 | 1392 | 4831 | 8676 | 2877 |
| 76 | 205884 | 198340 | 191324 | 184768 | 178616 | 172821 |
| 77 | 5806 | 8267 | 1256 | 4705 | 8556 | 2765 |
| 78 | 5728 | 8194 | 1188 | 4642 | 8497 | 2709 |
| 79 | 205650 | 198122 | 191121 | 184579 | 178438 | 172653 |
| 80 | 5572 | 8050 | 1054 | 4516 | 8379 | 2597 |
| 81 | 5494 | 7978 | 0986 | 4452 | 8319 | 2541 |
| 82 | 205416 | 197905 | 190918 | 184389 | 178259 | 172485 |
| 83 | 5338 | 7833 | 0850 | 4326 | 8199 | 2429 |
| 84 | 5260 | 7760 | 0783 | 4263 | 8140 | 2373 |
| 85 | 205182 | 197688 | 190716 | 184200 | 178081 | 172317 |
| 86 | 5104 | 7616 | 0649 | 4137 | 8022 | 2261 |
| 87 | 5026 | 7544 | 0582 | 4074 | 7963 | 2205 |
| 88 | 204948 | 197472 | 190515 | 184011 | 177904 | 172149 |
| 89 | 4871 | 7400 | 0448 | 3948 | 7845 | 2093 |
| 90 | 4794 | 7328 | 0381 | 3885 | 7786 | 2037 |
| 91 | 204717 | 197256 | 190314 | 183822 | 177727 | 171981 |
| 92 | 4640 | 7184 | 0247 | 3759 | 7668 | 1925 |
| 93 | 4563 | 7112 | 0180 | 3696 | 7609 | 1869 |
| 94 | 204486 | 197040 | 190113 | 183633 | 177550 | 171813 |
| 95 | 4409 | 6968 | 190046 | 3570 | 7491 | 1757 |
| 96 | 4332 | 6896 | 189979 | 3507 | 7432 | 1701 |
| 97 | 204255 | 196824 | 189912 | 183445 | 177373 | 171645 |
| 98 | 4178 | 6753 | 9845 | 3382 | 7314 | 1590 |
| 99 | 4101 | 6682 | 9778 | 3320 | 7255 | 1535 |

| | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 |
|---|---|---|---|---|---|---|
| 0 | 171480 | 166073 | 160944 | 156065 | 151413 | 146968 |
| 1 | 1424 | 6020 | 0894 | 6017 | 1367 | 6924 |
| 2 | 1368 | 5967 | 0844 | 5969 | 1321 | 6880 |
| 3 | 1312 | 5914 | 0794 | 5921 | 1275 | 6836 |
| 4 | 171256 | 165861 | 160744 | 155873 | 151229 | 146792 |
| 5 | 1201 | 5808 | 0694 | 5825 | 1184 | 6749 |
| 6 | 1146 | 5756 | 0644 | 5778 | 1139 | 6706 |
| 7 | 171091 | 165704 | 160594 | 155731 | 151094 | 146663 |
| 8 | 1036 | 5652 | 0544 | 5684 | 1049 | 6620 |
| 9 | 0981 | 5600 | 0494 | 5637 | 1004 | 6577 |
| 10 | 170926 | 165548 | 160445 | 155590 | 150959 | 146534 |
| 11 | 0870 | 5495 | 0395 | 5542 | 0913 | 6490 |
| 12 | 0815 | 5442 | 0345 | 5494 | 0868 | 6446 |
| 13 | 170760 | 165390 | 160295 | 155446 | 150823 | 146403 |
| 14 | 0705 | 5338 | 0245 | 5399 | 0778 | 6360 |
| 15 | 0650 | 5286 | 0195 | 5352 | 0733 | 6317 |
| 16 | 170595 | 165234 | 160145 | 155305 | 150688 | 146274 |
| 17 | 0540 | 5182 | 0096 | 5258 | 0643 | 6231 |
| 18 | 0485 | 5130 | 160047 | 5211 | 0598 | 6188 |
| 19 | 170430 | 165078 | 159998 | 155164 | 150553 | 146145 |
| 20 | 0375 | 5026 | 9949 | 5117 | 0508 | 6102 |
| 21 | 0320 | 4974 | 9899 | 5069 | 0463 | 6059 |
| 22 | 170265 | 164922 | 159849 | 155022 | 150418 | 146016 |
| 23 | 0210 | 4870 | 9799 | 4975 | 0373 | 5973 |
| 24 | 0155 | 4818 | 9749 | 4928 | 0328 | 5930 |
| 25 | 170100 | 164766 | 159700 | 154881 | 150283 | 145887 |
| 26 | 170045 | 4714 | 9651 | 4834 | 0238 | 5844 |
| 27 | 169990 | 4662 | 9602 | 4787 | 0193 | 5801 |
| 28 | 169935 | 164610 | 159553 | 154740 | 150148 | 145758 |
| 29 | 9881 | 4558 | 9504 | 4693 | 0103 | 5715 |
| 30 | 9827 | 4506 | 9455 | 4646 | 0058 | 5672 |
| 31 | 169772 | 164454 | 159405 | 154599 | 150013 | 145629 |
| 32 | 9717 | 4402 | 9355 | 4552 | 149968 | 5586 |
| 33 | 9662 | 4350 | 9306 | 4505 | 149923 | 5543 |

| | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 |
|---|---|---|---|---|---|---|
| 33 | 169662 | 164350 | 159306 | 154505 | 149923 | 145543 |
| 34 | 9607 | 4298 | 9257 | 4458 | 9878 | 5500 |
| 35 | 9552 | 4246 | 9208 | 4411 | 9833 | 5457 |
| 36 | 9498 | 4194 | 9159 | 4364 | 9788 | 5414 |
| 37 | 169444 | 164143 | 159110 | 154317 | 149743 | 145371 |
| 38 | 9390 | 4092 | 9061 | 4270 | 9698 | 5328 |
| 39 | 9336 | 4041 | 9012 | 4224 | 9655 | 5285 |
| 40 | 169282 | 163990 | 158963 | 154178 | 149611 | 145243 |
| 41 | 9227 | 3938 | 8914 | 4131 | 9566 | 5200 |
| 42 | 9172 | 3886 | 8865 | 4084 | 9521 | 5157 |
| 43 | 169118 | 163834 | 158816 | 154037 | 149476 | 145114 |
| 44 | 9064 | 3782 | 8767 | 3990 | 9431 | 5071 |
| 45 | 9010 | 3731 | 8718 | 3943 | 9386 | 5028 |
| 46 | 168956 | 163680 | 158669 | 153896 | 149341 | 144985 |
| 47 | 8902 | 3629 | 8620 | 3850 | 9297 | 4943 |
| 48 | 8848 | 3578 | 8571 | 3804 | 9253 | 4901 |
| 49 | 168794 | 163527 | 158522 | 153758 | 149209 | 144859 |
| 50 | 8740 | 3476 | 8474 | 3712 | 9165 | 4817 |
| 51 | 8686 | 3424 | 8425 | 3665 | 9120 | 4774 |
| 52 | 168632 | 163372 | 158376 | 153618 | 149075 | 144731 |
| 53 | 8578 | 3321 | 8327 | 3571 | 9030 | 4688 |
| 54 | 8524 | 3270 | 8278 | 3524 | 8986 | 4645 |
| 55 | 168470 | 163219 | 158229 | 153476 | 148942 | 144602 |
| 56 | 8416 | 3168 | 8180 | 3430 | 8898 | 4560 |
| 57 | 8362 | 3117 | 8132 | 3384 | 8854 | 4518 |
| 58 | 168308 | 163066 | 158084 | 153338 | 148810 | 144476 |
| 59 | 8254 | 3015 | 8036 | 3292 | 8766 | 4434 |
| 60 | 8201 | 2964 | 7988 | 3248 | 8722 | 4392 |
| 61 | 168147 | 162913 | 157939 | 153201 | 148677 | 144349 |
| 62 | 8093 | 2862 | 7890 | 3154 | 8632 | 4306 |
| 63 | 8039 | 2811 | 7841 | 3108 | 8588 | 4263 |
| 64 | 167985 | 162760 | 157792 | 153062 | 148544 | 144221 |
| 65 | 7931 | 2709 | 7744 | 3016 | 8500 | 4179 |
| 66 | 7877 | 2658 | 7696 | 2970 | 8456 | 4137 |

| | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 |
|---|---|---|---|---|---|---|
| 66 | 167877 | 162658 | 157696 | 152970 | 148456 | 144137 |
| 67 | 7824 | 2607 | 7648 | 2924 | 8412 | 4095 |
| 68 | 7771 | 2556 | 7600 | 2878 | 8368 | 4053 |
| 69 | 7718 | 2505 | 7552 | 2832 | 8324 | 4011 |
| 70 | 167665 | 162455 | 157504 | 152786 | 148280 | 143969 |
| 71 | 7611 | 2404 | 7455 | 2740 | 8236 | 3926 |
| 72 | 7557 | 2353 | 7406 | 2694 | 8192 | 3884 |
| 73 | 167503 | 162302 | 157358 | 152648 | 148148 | 143842 |
| 74 | 7449 | 2251 | 7310 | 2602 | 8104 | 3800 |
| 75 | 7396 | 2200 | 7262 | 2556 | 8060 | 3758 |
| 76 | 167343 | 162149 | 157214 | 152510 | 148016 | 143716 |
| 77 | 7290 | 2099 | 7166 | 2464 | 7972 | 3674 |
| 78 | 7237 | 2049 | 7118 | 2418 | 7928 | 3632 |
| 79 | 167184 | 161999 | 157070 | 152372 | 147884 | 143590 |
| 80 | 7131 | 1949 | 7022 | 2326 | 7841 | 3548 |
| 81 | 7078 | 1898 | 6974 | 2280 | 7797 | 3506 |
| 82 | 167025 | 161847 | 156926 | 152234 | 147753 | 143464 |
| 83 | 6972 | 1796 | 6878 | 2188 | 7709 | 3422 |
| 84 | 6919 | 1745 | 6830 | 2142 | 7665 | 3380 |
| 85 | 166866 | 161695 | 156782 | 152096 | 147621 | 143338 |
| 86 | 6813 | 1645 | 6734 | 2050 | 7577 | 3296 |
| 87 | 6760 | 1595 | 6686 | 2004 | 7533 | 3252 |
| 88 | 166707 | 161545 | 156638 | 151958 | 147489 | 143212 |
| 89 | 6654 | 1495 | 6590 | 1913 | 7446 | 3170 |
| 90 | 6601 | 1445 | 6542 | 1868 | 7403 | 3129 |
| 91 | 166548 | 161394 | 156494 | 151822 | 147359 | 143087 |
| 92 | 6495 | 1344 | 6446 | 1776 | 7315 | 3045 |
| 93 | 6442 | 1294 | 6398 | 1730 | 7271 | 3003 |
| 94 | 166389 | 161244 | 156350 | 151684 | 147227 | 142961 |
| 95 | 6336 | 1194 | 6302 | 1638 | 7183 | 2919 |
| 96 | 6283 | 1144 | 6254 | 1593 | 7140 | 2877 |
| 97 | 166230 | 161094 | 156206 | 151548 | 147097 | 142835 |
| 98 | 6177 | 1044 | 6159 | 1503 | 7054 | 2794 |
| 99 | 6125 | 0994 | 6112 | 1458 | 7011 | 2753 |

| | 2400 | 2500 | 2600 | 2700 | 2800 | 2900 |
|---|---|---|---|---|---|---|
| 0 | 142712 | 138629 | 134707 | 130933 | 127297 | 123787 |
| 1 | 2670 | 8589 | 4668 | 0896 | 7261 | 3752 |
| 2 | 2628 | 8549 | 4629 | 0859 | 7225 | 3717 |
| 3 | 2586 | 8509 | 4590 | 0822 | 7189 | 3682 |
| 4 | 142544 | 138469 | 134551 | 130785 | 127153 | 123647 |
| 5 | 2502 | 8429 | 4513 | 0748 | 7117 | 3613 |
| 6 | 2460 | 8389 | 4475 | 0711 | 7081 | 3579 |
| 7 | 142419 | 138349 | 134437 | 130674 | 127045 | 123545 |
| 8 | 2378 | 8309 | 4399 | 0637 | 7010 | 3511 |
| 9 | 2337 | 8269 | 4361 | 0600 | 6975 | 3477 |
| 10 | 142296 | 138230 | 134323 | 130564 | 126940 | 123443 |
| 11 | 2254 | 8190 | 4284 | 0527 | 6904 | 3408 |
| 12 | 2212 | 8150 | 4245 | 0490 | 6868 | 3373 |
| 13 | 142170 | 138110 | 134207 | 130453 | 126832 | 123338 |
| 14 | 2128 | 8070 | 4169 | 0416 | 6796 | 3304 |
| 15 | 2087 | 8030 | 4131 | 0379 | 6760 | 3270 |
| 16 | 142046 | 137990 | 134093 | 130342 | 126725 | 123236 |
| 17 | 2005 | 7950 | 4055 | 0305 | 6690 | 3202 |
| 18 | 1964 | 7911 | 4017 | 0268 | 6655 | 3168 |
| 19 | 141923 | 137872 | 133979 | 230231 | 126620 | 123134 |
| 20 | 1882 | 7833 | 3941 | 0195 | 6585 | 3100 |
| 21 | 1840 | 7793 | 3902 | 0158 | 6549 | 3065 |
| 22 | 141798 | 137753 | 133864 | 130121 | 126513 | 123030 |
| 23 | 1756 | 7713 | 3826 | 0084 | 6477 | 2996 |
| 24 | 1715 | 7673 | 3788 | 0047 | 6441 | 2962 |
| 25 | 141674 | 137633 | 133750 | 130010 | 126400 | 122928 |
| 26 | 1633 | 7593 | 3712 | 129973 | 6371 | 2894 |
| 27 | 1592 | 7554 | 3674 | 129936 | 6336 | 2860 |
| 28 | 141551 | 137515 | 133636 | 129900 | 126301 | 122826 |
| 29 | 1510 | 7476 | 3598 | 9864 | 6266 | 2792 |
| 30 | 1469 | 7437 | 3560 | 9828 | 6231 | 2758 |
| 31 | 141428 | 137397 | 133522 | 129791 | 126195 | 122723 |
| 32 | 1387 | 7357 | 3484 | 9754 | 6159 | 2689 |
| 33 | 1346 | 7317 | 3446 | 9717 | 6123 | 2655 |

| | 2400 | 2500 | 2600 | 2700 | 2800 | 2900 |
|---|---|---|---|---|---|---|
| 33 | 141346 | 137317 | 133446 | 129717 | 126123 | 122655 |
| 34 | 305 | 277 | 408 | 680 | 088 | 621 |
| 35 | 264 | 237 | 370 | 643 | 053 | 587 |
| 36 | 223 | 198 | 332 | 607 | 126018 | 553 |
| 37 | 141182 | 137159 | 133294 | 129571 | 125983 | 122519 |
| 38 | 141 | 120 | 256 | 535 | 948 | 485 |
| 39 | 100 | 081 | 218 | 499 | 913 | 451 |
| 40 | 141059 | 137042 | 133180 | 129463 | 125878 | 122417 |
| 41 | 141018 | 137002 | 142 | 426 | 842 | 383 |
| 42 | 140977 | 136962 | 104 | 389 | 807 | 349 |
| 43 | 140936 | 136922 | 133066 | 129352 | 125772 | 122315 |
| 44 | 895 | 883 | 133028 | 315 | 737 | 281 |
| 45 | 854 | 844 | 132990 | 278 | 702 | 247 |
| 46 | 140813 | 136805 | 132952 | 129242 | 125667 | 122213 |
| 47 | 772 | 766 | 914 | 206 | 632 | 179 |
| 48 | 731 | 727 | 876 | 170 | 597 | 145 |
| 49 | 140690 | 136688 | 132839 | 129134 | 125562 | 122111 |
| 50 | 650 | 649 | 802 | 098 | 527 | 078 |
| 51 | 609 | 609 | 764 | 061 | 491 | 044 |
| 52 | 140568 | 136570 | 132726 | 129024 | 125456 | 122010 |
| 53 | 527 | 531 | 688 | 128987 | 421 | 121976 |
| 54 | 486 | 492 | 650 | 128951 | 386 | 121942 |
| 55 | 140445 | 136453 | 132612 | 128915 | 125351 | 121908 |
| 56 | 404 | 414 | 574 | 879 | 316 | 874 |
| 57 | 363 | 375 | 537 | 843 | 281 | 840 |
| 58 | 140322 | 136336 | 132500 | 128807 | 125246 | 121806 |
| 59 | 282 | 297 | 463 | 771 | 211 | 773 |
| 60 | 242 | 258 | 426 | 735 | 176 | 740 |
| 61 | 140201 | 136219 | 132388 | 128698 | 125141 | 121706 |
| 62 | 160 | 180 | 350 | 662 | 106 | 672 |
| 63 | 119 | 141 | 312 | 626 | 071 | 638 |
| 64 | 140078 | 136102 | 132274 | 128590 | 125036 | 121604 |
| 65 | 140037 | 063 | 236 | 554 | 125001 | 570 |
| 66 | 139997 | 024 | 199 | 518 | 124966 | 536 |

| | 2400 | 2500 | 2600 | 2700 | 2800 | 2900 |
|---|---|---|---|---|---|---|
| 66 | 139997 | 136024 | 132199 | 128518 | 124966 | 121536 |
| 67 | 957 | 135985 | 162 | 482 | 931 | 502 |
| 68 | 917 | 946 | 125 | 446 | 896 | 468 |
| 69 | 877 | 907 | 088 | 410 | 861 | 435 |
| 70 | 139837 | 135868 | 132051 | 128374 | 124827 | 121402 |
| 71 | 796 | 829 | 132013 | 338 | 792 | 368 |
| 72 | 755 | 790 | 131975 | 301 | 757 | 334 |
| 73 | 139714 | 135751 | 131937 | 128265 | 124722 | 121300 |
| 74 | 673 | 712 | 899 | 229 | 687 | 266 |
| 75 | 633 | 673 | 862 | 193 | 652 | 232 |
| 76 | 139593 | 135634 | 131825 | 128157 | 124617 | 121198 |
| 77 | 553 | 595 | 788 | 121 | 582 | 165 |
| 78 | 513 | 556 | 751 | 085 | 547 | 132 |
| 79 | 139473 | 135518 | 131714 | 128049 | 124513 | 121099 |
| 80 | 433 | 480 | 677 | 128013 | 479 | 066 |
| 81 | 392 | 441 | 639 | 127977 | 444 | 121032 |
| 82 | 139351 | 135402 | 131601 | 127941 | 124409 | 120998 |
| 83 | 310 | 363 | 563 | 905 | 374 | 964 |
| 84 | 270 | 324 | 526 | 869 | 339 | 930 |
| 85 | 139230 | 135285 | 131489 | 127833 | 124304 | 120896 |
| 86 | 190 | 246 | 452 | 797 | 269 | 863 |
| 87 | 150 | 207 | 415 | 761 | 235 | 830 |
| 88 | 139110 | 135169 | 131378 | 127725 | 124201 | 120797 |
| 89 | 070 | 131 | 341 | 689 | 167 | 764 |
| 90 | 139030 | 093 | 304 | 654 | 133 | 731 |
| 91 | 138989 | 135054 | 131266 | 127618 | 124098 | 120697 |
| 92 | 949 | 135015 | 229 | 582 | 124063 | 663 |
| 93 | 909 | 134976 | 192 | 546 | 124028 | 629 |
| 94 | 138869 | 134937 | 131155 | 127510 | 123993 | 120595 |
| 95 | 829 | 898 | 118 | 474 | 958 | 562 |
| 96 | 789 | 859 | 081 | 438 | 923 | 529 |
| 97 | 138749 | 134821 | 131044 | 127402 | 123889 | 120496 |
| 98 | 709 | 783 | 131007 | 367 | 855 | 463 |
| 99 | 669 | 745 | 130970 | 332 | 821 | 430 |

| | 3000 | 3100 | 3200 | 3300 | 3400 | 3500 |
|---|---|---|---|---|---|---|
| 0 | 120397 | 117118 | 113943 | 110866 | 107881 | 104982 |
| 1 | 363 | 085 | 911 | 835 | 851 | 953 |
| 2 | 329 | 052 | 879 | 804 | 821 | 924 |
| 3 | 295 | 117020 | 848 | 774 | 791 | 895 |
| 4 | 120262 | 116988 | 113817 | 110744 | 107761 | 104866 |
| 5 | 229 | 956 | 786 | 714 | 732 | 837 |
| 6 | 196 | 924 | 755 | 684 | 703 | 809 |
| 7 | 120163 | 116892 | 113724 | 110654 | 107674 | 104781 |
| 8 | 130 | 860 | 693 | 624 | 645 | 753 |
| 9 | 097 | 828 | 662 | 594 | 616 | 725 |
| 10 | 120064 | 116796 | 113631 | 110564 | 107587 | 104697 |
| 11 | 120030 | 763 | 599 | 533 | 557 | 668 |
| 12 | 119997 | 731 | 568 | 502 | 527 | 639 |
| 13 | 119964 | 116699 | 113537 | 110472 | 107497 | 104610 |
| 14 | 931 | 667 | 506 | 442 | 468 | 581 |
| 15 | 898 | 635 | 475 | 412 | 439 | 552 |
| 16 | 119865 | 116603 | 113444 | 110382 | 107410 | 104524 |
| 17 | 832 | 571 | 413 | 352 | 381 | 496 |
| 18 | 799 | 539 | 382 | 322 | 352 | 468 |
| 19 | 119766 | 116507 | 113351 | 110292 | 107323 | 104440 |
| 20 | 733 | 475 | 320 | 262 | 294 | 412 |
| 21 | 699 | 443 | 289 | 231 | 264 | 383 |
| 22 | 119666 | 116411 | 113258 | 110201 | 107234 | 104354 |
| 23 | 633 | 379 | 227 | 171 | 205 | 325 |
| 24 | 600 | 347 | 196 | 141 | 176 | 297 |
| 25 | 119567 | 116315 | 113165 | 110111 | 107147 | 104269 |
| 26 | 534 | 283 | 134 | 081 | 118 | 241 |
| 27 | 501 | 251 | 103 | 051 | 089 | 213 |
| 28 | 119468 | 116219 | 113072 | 110021 | 107060 | 104185 |
| 29 | 435 | 187 | 041 | 109991 | 031 | 157 |
| 30 | 402 | 155 | 113010 | 961 | 107002 | 129 |
| 31 | 119369 | 116123 | 112979 | 109931 | 106972 | 104100 |
| 32 | 336 | 091 | 948 | 901 | 943 | 071 |
| 33 | 303 | 059 | 917 | 871 | 914 | 042 |

| | 3000 | 3100 | 3200 | 3300 | 3400 | 3500 |
|---|---|---|---|---|---|---|
| 33 | 119303 | 116059 | 112917 | 109871 | 106914 | 104042 |
| 34 | 270 | 116027 | 886 | 841 | 885 | 104014 |
| 35 | 237 | 115995 | 855 | 811 | 856 | 103986 |
| 36 | 204 | 115963 | 824 | 781 | 827 | 958 |
| 37 | 119171 | 115931 | 112793 | 109751 | 106798 | 103930 |
| 38 | 138 | 899 | 762 | 721 | 769 | 902 |
| 39 | 105 | 867 | 731 | 691 | 740 | 874 |
| 40 | 119073 | 115836 | 112701 | 109662 | 106711 | 103846 |
| 41 | 040 | 804 | 670 | 631 | 682 | 817 |
| 42 | 119007 | 772 | 639 | 601 | 653 | 788 |
| 43 | 118974 | 115740 | 112608 | 109571 | 106624 | 103760 |
| 44 | 941 | 708 | 577 | 541 | 595 | 732 |
| 45 | 908 | 676 | 546 | 511 | 566 | 704 |
| 46 | 118875 | 115644 | 112515 | 109481 | 106537 | 103676 |
| 47 | 842 | 612 | 484 | 451 | 508 | 648 |
| 48 | 809 | 580 | 453 | 421 | 479 | 620 |
| 49 | 118776 | 115549 | 112423 | 109391 | 106450 | 103592 |
| 50 | 744 | 518 | 393 | 362 | 411 | 564 |
| 51 | 711 | 486 | 362 | 332 | 392 | 535 |
| 52 | 118678 | 115454 | 112331 | 109302 | 106363 | 103506 |
| 53 | 645 | 422 | 300 | 272 | 334 | 478 |
| 54 | 612 | 390 | 269 | 242 | 305 | 450 |
| 55 | 118579 | 115358 | 112238 | 109212 | 106276 | 103422 |
| 56 | 546 | 326 | 207 | 182 | 247 | 394 |
| 57 | 513 | 294 | 176 | 152 | 218 | 366 |
| 58 | 118481 | 115263 | 112146 | 109122 | 106189 | 103338 |
| 59 | 449 | 232 | 116 | 093 | 160 | 310 |
| 60 | 417 | 201 | 086 | 064 | 132 | 282 |
| 61 | 118384 | 115169 | 112055 | 109034 | 106103 | 103254 |
| 62 | 351 | 137 | 112024 | 109004 | 074 | 226 |
| 63 | 318 | 105 | 111993 | 108974 | 045 | 198 |
| 64 | 118285 | 115073 | 111962 | 108944 | 106016 | 103170 |
| 65 | 252 | 041 | 931 | 914 | 105987 | 142 |
| 66 | 219 | 009 | 900 | 884 | 105958 | 114 |

| | 3000 | 3100 | 3200 | 3300 | 3400 | 3500 |
|---|---|---|---|---|---|---|
| 66 | 118219 | 115009 | 111900 | 108884 | 105958 | 103114 |
| 67 | 187 | 114978 | 869 | 854 | 929 | 086 |
| 68 | 155 | 947 | 839 | 825 | 900 | 058 |
| 69 | 123 | 114916 | 809 | 796 | 871 | 030 |
| 70 | 118091 | 114885 | 111779 | 108767 | 105843 | 103002 |
| 71 | 058 | 853 | 748 | 737 | 814 | 102974 |
| 72 | 118025 | 821 | 717 | 707 | 785 | 102946 |
| 73 | 117992 | 114789 | 111686 | 108677 | 105756 | 102918 |
| 74 | 959 | 757 | 655 | 647 | 727 | 890 |
| 75 | 926 | 725 | 624 | 617 | 698 | 862 |
| 76 | 117894 | 114694 | 111594 | 108587 | 105669 | 102834 |
| 77 | 862 | 663 | 564 | 558 | 640 | 806 |
| 78 | 830 | 632 | 534 | 529 | 611 | 778 |
| 79 | 117798 | 114601 | 111504 | 108500 | 105583 | 102750 |
| 80 | 766 | 570 | 474 | 471 | 555 | 722 |
| 81 | 733 | 538 | 443 | 441 | 526 | 694 |
| 82 | 117700 | 114506 | 111412 | 108411 | 105497 | 102666 |
| 83 | 667 | 474 | 381 | 381 | 468 | 638 |
| 84 | 634 | 442 | 350 | 351 | 439 | 610 |
| 85 | 117601 | 114411 | 111320 | 108321 | 105410 | 102582 |
| 86 | 569 | 380 | 290 | 291 | 381 | 554 |
| 87 | 537 | 349 | 260 | 262 | 352 | 526 |
| 88 | 117505 | 114318 | 111230 | 108233 | 105324 | 102498 |
| 89 | 473 | 287 | 200 | 204 | 296 | 470 |
| 90 | 441 | 256 | 170 | 175 | 268 | 443 |
| 91 | 117408 | 114224 | 111139 | 108145 | 105239 | 102415 |
| 92 | 375 | 192 | 108 | 115 | 210 | 387 |
| 93 | 342 | 160 | 077 | 085 | 181 | 359 |
| 94 | 117310 | 114129 | 111046 | 108055 | 105152 | 102331 |
| 95 | 278 | 098 | 111016 | 108026 | 123 | 303 |
| 96 | 246 | 067 | 110986 | 107997 | 094 | 275 |
| 97 | 117214 | 114036 | 110956 | 107968 | 105066 | 102247 |
| 98 | 182 | 114005 | 926 | 939 | 038 | 219 |
| 99 | 150 | 113974 | 896 | 910 | 010 | 192 |

| | 3600 | 3700 | 3800 | 3900 | 4000 | 4100 |
|---|---|---|---|---|---|---|
| 0 | 102165 | 99425 | 96758 | 94161 | 91629 | 89160 |
| 1 | 137 | 398 | 731 | 135 | 604 | 135 |
| 2 | 109 | 371 | 704 | 109 | 579 | 110 |
| 3 | 081 | 344 | 677 | 083 | 554 | 085 |
| 4 | 102053 | 99317 | 96651 | 94057 | 91529 | 89060 |
| 5 | 102025 | 290 | 625 | 031 | 504 | 036 |
| 6 | 101997 | 263 | 599 | 94005 | 479 | 89012 |
| 7 | 101969 | 99236 | 96573 | 93980 | 91454 | 88988 |
| 8 | 942 | 209 | 547 | 955 | 429 | 964 |
| 9 | 915 | 182 | 521 | 930 | 404 | 940 |
| 10 | 101888 | 99155 | 96495 | 93905 | 91372 | 88916 |
| 11 | 860 | 128 | 468 | 879 | 354 | 891 |
| 12 | 832 | 101 | 441 | 853 | 329 | 866 |
| 13 | 101804 | 99074 | 96415 | 93827 | 91304 | 88841 |
| 14 | 776 | 047 | 389 | 801 | 279 | 817 |
| 15 | 748 | 99020 | 363 | 775 | 254 | 793 |
| 16 | 101720 | 98993 | 96337 | 93749 | 91229 | 88769 |
| 17 | 692 | 966 | 311 | 724 | 204 | 745 |
| 18 | 665 | 939 | 285 | 699 | 179 | 721 |
| 19 | 101638 | 98912 | 96259 | 93674 | 91154 | 88697 |
| 20 | 611 | 886 | 233 | 649 | 130 | 673 |
| 21 | 583 | 859 | 206 | 623 | 105 | 648 |
| 22 | 101555 | 98832 | 96180 | 93597 | 91080 | 88623 |
| 23 | 527 | 805 | 154 | 571 | 055 | 599 |
| 24 | 499 | 778 | 128 | 545 | 030 | 575 |
| 25 | 101471 | 98571 | 96102 | 93519 | 91005 | 88551 |
| 26 | 443 | 724 | 076 | 494 | 90980 | 527 |
| 27 | 416 | 697 | 050 | 469 | 90955 | 503 |
| 28 | 101389 | 98670 | 96024 | 93444 | 90930 | 88479 |
| 29 | 362 | 644 | 95998 | 419 | 906 | 455 |
| 30 | 335 | 618 | 95972 | 394 | 882 | 431 |
| 31 | 101307 | 98591 | 95945 | 93368 | 90857 | 88406 |
| 32 | 279 | 564 | 919 | 342 | 832 | 381 |
| 33 | 251 | 537 | 893 | 316 | 807 | 357 |

| | 3600 | 3700 | 3800 | 3900 | 4000 | 4100 |
|---|---|---|---|---|---|---|
| 33 | 101251 | 98537 | 95893 | 93316 | 90807 | 88357 |
| 34 | 223 | 510 | 867 | 290 | 782 | 333 |
| 35 | 195 | 483 | 841 | 265 | 757 | 309 |
| 36 | 168 | 456 | 815 | 240 | 732 | 285 |
| 37 | 101141 | 98429 | 95789 | 93215 | 90707 | 88261 |
| 38 | 114 | 402 | 763 | 190 | 682 | 237 |
| 39 | 087 | 376 | 737 | 165 | 658 | 213 |
| 40 | 101060 | 98350 | 95711 | 93140 | 90634 | 88189 |
| 41 | 032 | 323 | 685 | 114 | 609 | 164 |
| 42 | 101004 | 296 | 659 | 088 | 584 | 140 |
| 43 | 100976 | 98269 | 95633 | 93062 | 90559 | 88116 |
| 44 | 948 | 242 | 607 | 037 | 534 | 092 |
| 45 | 921 | 215 | 581 | 93012 | 509 | 068 |
| 46 | 100894 | 98188 | 95555 | 92987 | 90484 | 88044 |
| 47 | 867 | 161 | 529 | 962 | 459 | 88020 |
| 48 | 840 | 135 | 503 | 937 | 435 | 87996 |
| 49 | 100813 | 98109 | 95477 | 92912 | 90411 | 87972 |
| 50 | 786 | 083 | 451 | 887 | 387 | 948 |
| 51 | 758 | 056 | 425 | 861 | 362 | 923 |
| 52 | 100730 | 98029 | 95399 | 92835 | 90337 | 87899 |
| 53 | 702 | 98002 | 373 | 809 | 312 | 875 |
| 54 | 674 | 97975 | 347 | 784 | 287 | 851 |
| 55 | 100647 | 97948 | 95321 | 92759 | 90262 | 87827 |
| 56 | 620 | 921 | 295 | 734 | 237 | 803 |
| 57 | 593 | 895 | 269 | 709 | 212 | 779 |
| 58 | 100566 | 97869 | 95243 | 92684 | 90188 | 87755 |
| 59 | 539 | 843 | 217 | 659 | 164 | 731 |
| 60 | 512 | 817 | 192 | 634 | 140 | 707 |
| 61 | 100484 | 97790 | 95166 | 92608 | 90115 | 87683 |
| 62 | 456 | 763 | 140 | 582 | 090 | 659 |
| 63 | 428 | 736 | 114 | 557 | 065 | 635 |
| 64 | 100401 | 97709 | 95088 | 92532 | 90040 | 87611 |
| 65 | 374 | 682 | 062 | 507 | 90015 | 587 |
| 66 | 347 | 655 | 036 | 482 | 89990 | 563 |

| | 3600 | 3700 | 3800 | 3900 | 4000 | 4100 |
|---|---|---|---|---|---|---|
| 66 | 100347 | 97655 | 95036 | 92482 | 89990 | 87563 |
| 67 | 320 | 629 | 95010 | 457 | 966 | 539 |
| 68 | 293 | 603 | 94984 | 432 | 942 | 515 |
| 69 | 266 | 577 | 94958 | 407 | 918 | 491 |
| 70 | 100239 | 97551 | 94933 | 92382 | 89894 | 87467 |
| 71 | 212 | 524 | 907 | 356 | 869 | 443 |
| 72 | 183 | 497 | 881 | 330 | 844 | 419 |
| 73 | 100156 | 97470 | 94855 | 92305 | 89819 | 87395 |
| 74 | 129 | 443 | 829 | 280 | 794 | 371 |
| 75 | 102 | 416 | 803 | 255 | 769 | 347 |
| 76 | 100075 | 97390 | 94777 | 92230 | 89745 | 87323 |
| 77 | 048 | 364 | 751 | 205 | 721 | 299 |
| 78 | 100021 | 338 | 725 | 180 | 697 | 275 |
| 79 | 99994 | 97312 | 94700 | 92155 | 89673 | 87251 |
| 80 | 967 | 286 | 675 | 130 | 649 | 227 |
| 81 | 939 | 259 | 649 | 104 | 624 | 203 |
| 82 | 99912 | 97232 | 94623 | 92079 | 89599 | 87179 |
| 83 | 885 | 205 | 597 | 054 | 574 | 155 |
| 84 | 858 | 178 | 571 | 029 | 549 | 131 |
| 85 | 99831 | 97152 | 94545 | 92004 | 89524 | 87107 |
| 86 | 804 | 126 | 519 | 91979 | 500 | 083 |
| 87 | 777 | 100 | 493 | 91954 | 476 | 059 |
| 88 | 99750 | 97074 | 94468 | 91929 | 89452 | 87035 |
| 89 | 723 | 048 | 443 | 904 | 428 | 87011 |
| 90 | 696 | 97022 | 418 | 879 | 404 | 86988 |
| 91 | 99668 | 96995 | 94392 | 91854 | 89379 | 86964 |
| 92 | 641 | 968 | 366 | 829 | 354 | 940 |
| 93 | 614 | 941 | 340 | 804 | 329 | 916 |
| 94 | 99587 | 96914 | 94314 | 91779 | 89304 | 86892 |
| 95 | 560 | 888 | 288 | 754 | 280 | 868 |
| 96 | 533 | 862 | 262 | 729 | 256 | 844 |
| 97 | 99506 | 96836 | 94236 | 91704 | 89232 | 86818 |
| 98 | 479 | 810 | 211 | 679 | 208 | 796 |
| 99 | 452 | 784 | 186 | 654 | 184 | 773 |

| | 4200 | 4300 | 4400 | 4500 | 4600 | 4700 | 4800 |
|---|---|---|---|---|---|---|---|
| 0 | 86750 | 84397 | 82098 | 79851 | 77653 | 75502 | 73397 |
| 1 | 726 | 373 | 075 | 828 | 631 | 480 | 376 |
| 2 | 702 | 349 | 052 | 805 | 609 | 458 | 355 |
| 3 | 678 | 326 | 029 | 783 | 587 | 437 | 334 |
| 4 | 86654 | 84303 | 82006 | 79761 | 77565 | 75416 | 73313 |
| 5 | 630 | 280 | 81983 | 739 | 543 | 395 | 292 |
| 6 | 606 | 257 | 81960 | 717 | 521 | 374 | 271 |
| 7 | 86582 | 84234 | 81937 | 79695 | 77499 | 75353 | 73250 |
| 8 | 558 | 211 | 915 | 673 | 478 | 332 | 229 |
| 9 | 535 | 188 | 893 | 651 | 457 | 311 | 209 |
| 10 | 86512 | 84165 | 81871 | 79629 | 77436 | 75290 | 73189 |
| 11 | 488 | 141 | 848 | 606 | 414 | 268 | 168 |
| 12 | 464 | 117 | 825 | 583 | 392 | 246 | 147 |
| 13 | 86440 | 84094 | 81802 | 79561 | 77370 | 75225 | 73126 |
| 14 | 416 | 071 | 779 | 539 | 348 | 204 | 105 |
| 15 | 392 | 048 | 756 | 517 | 326 | 183 | 084 |
| 16 | 86368 | 84025 | 81733 | 79495 | 77304 | 75162 | 73063 |
| 17 | 344 | 84002 | 710 | 473 | 282 | 141 | 042 |
| 18 | 321 | 83979 | 688 | 451 | 261 | 120 | 021 |
| 19 | 86298 | 83956 | 81666 | 79429 | 77240 | 75099 | 73001 |
| 20 | 275 | 933 | 644 | 407 | 219 | 078 | 72981 |
| 21 | 251 | 909 | 621 | 384 | 197 | 056 | 72960 |
| 22 | 86227 | 83886 | 81598 | 79362 | 77175 | 75034 | 72939 |
| 23 | 203 | 863 | 575 | 340 | 153 | 75013 | 918 |
| 24 | 179 | 840 | 552 | 318 | 131 | 74992 | 897 |
| 25 | 86155 | 83817 | 81529 | 79296 | 77109 | 74971 | 72876 |
| 26 | 131 | 794 | 506 | 274 | 087 | 950 | 855 |
| 27 | 107 | 771 | 484 | 252 | 066 | 929 | 834 |
| 28 | 86084 | 83748 | 81462 | 79230 | 77045 | 74908 | 72814 |
| 29 | 061 | 725 | 440 | 208 | 024 | 887 | 794 |
| 30 | 038 | 702 | 418 | 186 | 77003 | 866 | 774 |
| 31 | 86014 | 83678 | 81395 | 79164 | 76981 | 74844 | 72753 |
| 32 | 85990 | 655 | 372 | 142 | 959 | 823 | 732 |
| 33 | 966 | 632 | 349 | 124 | 937 | 802 | 711 |

| | 4200 | 4300 | 4400 | 4500 | 4600 | 4700 | 4800 |
|---|---|---|---|---|---|---|---|
| 33 | 85966 | 83632 | 81349 | 79120 | 76937 | 74802 | 72711 |
| 34 | 942 | 609 | 326 | 098 | 915 | 781 | 690 |
| 35 | 918 | 586 | 303 | 076 | 893 | 760 | 669 |
| 36 | 894 | 563 | 281 | 054 | 871 | 739 | 648 |
| 37 | 85871 | 83540 | 81259 | 79032 | 76850 | 74718 | 72627 |
| 38 | 848 | 517 | 237 | 79010 | 829 | 697 | 607 |
| 39 | 825 | 494 | 215 | 78988 | 808 | 676 | 587 |
| 40 | 85802 | 83471 | 81193 | 78966 | 76787 | 74655 | 72567 |
| 41 | 778 | 448 | 170 | 944 | 765 | 633 | 546 |
| 42 | 754 | 425 | 147 | 922 | 743 | 612 | 525 |
| 43 | 85730 | 83402 | 81124 | 78900 | 76721 | 74591 | 72504 |
| 44 | 706 | 379 | 101 | 878 | 699 | 570 | 483 |
| 45 | 682 | 356 | 078 | 856 | 677 | 549 | 462 |
| 46 | 85659 | 83333 | 81056 | 78834 | 76656 | 74528 | 72441 |
| 47 | 636 | 310 | 034 | 812 | 635 | 507 | 421 |
| 48 | 613 | 287 | 81012 | 790 | 614 | 486 | 401 |
| 49 | 85590 | 83264 | 80990 | 78768 | 76593 | 74465 | 72381 |
| 50 | 567 | 241 | 968 | 746 | 572 | 444 | 361 |
| 51 | 543 | 218 | 945 | 724 | 550 | 423 | 340 |
| 52 | 85519 | 83195 | 80922 | 78702 | 76528 | 74402 | 72319 |
| 53 | 495 | 172 | 899 | 680 | 506 | 381 | 298 |
| 54 | 471 | 149 | 876 | 658 | 484 | 360 | 277 |
| 55 | 85447 | 83126 | 80854 | 78636 | 76462 | 74339 | 72256 |
| 56 | 424 | 103 | 832 | 614 | 441 | 318 | 235 |
| 57 | 401 | 080 | 810 | 592 | 420 | 297 | 215 |
| 58 | 85378 | 83057 | 80788 | 78570 | 76399 | 74276 | 72195 |
| 59 | 355 | 034 | 766 | 548 | 378 | 255 | 175 |
| 60 | 332 | 83011 | 744 | 526 | 357 | 234 | 155 |
| 61 | 85308 | 82988 | 80721 | 78504 | 76335 | 74213 | 72134 |
| 62 | 284 | 965 | 698 | 482 | 313 | 192 | 113 |
| 63 | 260 | 942 | 675 | 460 | 291 | 171 | 092 |
| 64 | 85236 | 82919 | 80652 | 78438 | 76269 | 74150 | 72071 |
| 65 | 212 | 896 | 630 | 416 | 248 | 129 | 050 |
| 66 | 189 | 873 | 608 | 394 | 227 | 108 | 029 |

| | 4200 | 4300 | 4400 | 4500 | 4600 | 4700 | 4800 |
|---|---|---|---|---|---|---|---|
| 66 | 85189 | 82873 | 80608 | 78394 | 76227 | 74108 | 72029 |
| 67 | 166 | 850 | 586 | 372 | 206 | 087 | 72009 |
| 68 | 143 | 827 | 564 | 350 | 185 | 066 | 71989 |
| 69 | 120 | 804 | 542 | 328 | 164 | 045 | 71969 |
| 70 | 85097 | 82782 | 80520 | 78307 | 76143 | 74024 | 71949 |
| 71 | 073 | 759 | 497 | 285 | 121 | 74003 | 928 |
| 72 | 049 | 736 | 474 | 263 | 099 | 73982 | 907 |
| 73 | 85025 | 82713 | 80451 | 78241 | 76077 | 73961 | 71886 |
| 74 | 85001 | 690 | 428 | 219 | 055 | 940 | 865 |
| 75 | 84978 | 667 | 406 | 197 | 034 | 919 | 844 |
| 76 | 84955 | 82644 | 80384 | 78175 | 76013 | 73898 | 71824 |
| 77 | 932 | 621 | 362 | 153 | 75992 | 877 | 804 |
| 78 | 909 | 598 | 340 | 131 | 75971 | 856 | 784 |
| 79 | 84886 | 82576 | 80318 | 78109 | 75950 | 73835 | 71764 |
| 80 | 863 | 554 | 296 | 088 | 929 | 814 | 744 |
| 81 | 839 | 531 | 273 | 066 | 907 | 793 | 723 |
| 82 | 84815 | 82508 | 80250 | 78044 | 75885 | 73772 | 71702 |
| 83 | 791 | 485 | 227 | 022 | 863 | 751 | 681 |
| 84 | 768 | 462 | 205 | 78000 | 841 | 730 | 660 |
| 85 | 84745 | 82439 | 80183 | 77978 | 75820 | 73709 | 71639 |
| 86 | 722 | 416 | 161 | 956 | 799 | 688 | 619 |
| 87 | 699 | 393 | 139 | 934 | 778 | 667 | 599 |
| 88 | 84676 | 82370 | 80117 | 77912 | 75757 | 73646 | 71579 |
| 89 | 653 | 348 | 095 | 891 | 736 | 625 | 559 |
| 90 | 630 | 326 | 073 | 870 | 715 | 605 | 539 |
| 91 | 84606 | 82303 | 80050 | 77848 | 75693 | 73584 | 71518 |
| 92 | 582 | 280 | 027 | 826 | 671 | 563 | 497 |
| 93 | 558 | 257 | 80005 | 804 | 649 | 542 | 476 |
| 94 | 84535 | 82234 | 79983 | 77782 | 75628 | 73521 | 71455 |
| 95 | 512 | 211 | 961 | 760 | 607 | 500 | 435 |
| 96 | 489 | 188 | 939 | 738 | 586 | 479 | 415 |
| 97 | 84466 | 82165 | 79917 | 77716 | 75565 | 73458 | 71395 |
| 98 | 443 | 142 | 895 | 695 | 544 | 437 | 375 |
| 99 | 420 | 120 | 873 | 674 | 523 | 417 | 355 |

| | 4900 | 5000 | 5100 | 5200 | 5300 | 5400 | 5500 |
|---|---|---|---|---|---|---|---|
| 0 | 71335 | 69315 | 67334 | 65393 | 63488 | 61619 | 59784 |
| 1 | 314 | 295 | 314 | 373 | 469 | 600 | 765 |
| 2 | 293 | 275 | 294 | 353 | 450 | 581 | 746 |
| 3 | 272 | 255 | 274 | 333 | 431 | 562 | 728 |
| 4 | 71251 | 69235 | 67254 | 65314 | 63412 | 61543 | 59710 |
| 5 | 231 | 215 | 234 | 295 | 393 | 524 | 692 |
| 6 | 211 | 195 | 215 | 276 | 374 | 506 | 674 |
| 7 | 71191 | 69175 | 67196 | 65257 | 63355 | 61488 | 59656 |
| 8 | 171 | 155 | 177 | 238 | 336 | 470 | 538 |
| 9 | 151 | 135 | 158 | 219 | 317 | 452 | 620 |
| 10 | 71131 | 69115 | 67139 | 65200 | 63299 | 61434 | 59602 |
| 11 | 110 | 095 | 119 | 180 | 280 | 315 | 583 |
| 12 | 089 | 075 | 099 | 161 | 261 | 396 | 565 |
| 13 | 71068 | 69055 | 67079 | 65142 | 63242 | 61377 | 59547 |
| 14 | 048 | 035 | 059 | 123 | 223 | 358 | 529 |
| 15 | 028 | 69015 | 039 | 104 | 204 | 339 | 511 |
| 16 | 71008 | 68995 | 67019 | 65085 | 63185 | 61321 | 59493 |
| 17 | 70988 | 975 | 67000 | 066 | 166 | 303 | 475 |
| 18 | 70968 | 955 | 66981 | 047 | 147 | 285 | 457 |
| 19 | 70948 | 68935 | 66962 | 65028 | 63129 | 61267 | 59439 |
| 20 | 928 | 915 | 943 | 65009 | 111 | 249 | 421 |
| 21 | 907 | 895 | 923 | 64989 | 092 | 230 | 402 |
| 22 | 70886 | 68875 | 66903 | 64969 | 63073 | 61211 | 59384 |
| 23 | 865 | 855 | 883 | 950 | 054 | 192 | 366 |
| 24 | 845 | 835 | 863 | 931 | 035 | 173 | 348 |
| 25 | 70825 | 68815 | 66843 | 64912 | 63016 | 61155 | 59330 |
| 26 | 805 | 795 | 824 | 893 | 62997 | 137 | 312 |
| 27 | 785 | 775 | 805 | 874 | 62978 | 119 | 294 |
| 28 | 70765 | 68755 | 66786 | 64855 | 62959 | 61101 | 59276 |
| 29 | 745 | 735 | 767 | 836 | 941 | 083 | 258 |
| 30 | 725 | 716 | 748 | 817 | 923 | 065 | 240 |
| 31 | 70704 | 68696 | 66728 | 64797 | 62904 | 61046 | 59221 |
| 32 | 683 | 676 | 708 | 778 | 885 | 027 | 203 |
| 33 | 662 | 656 | 688 | 759 | 866 | 008 | 185 |

| | 4900 | 5000 | 5100 | 5200 | 5300 | 5400 | 5500 |
|---|---|---|---|---|---|---|---|
| 33 | 70662 | 68656 | 66688 | 64759 | 62866 | 61008 | 59185 |
| 34 | 642 | 636 | 668 | 740 | 847 | 60989 | 167 |
| 35 | 622 | 616 | 648 | 721 | 828 | 971 | 149 |
| 36 | 602 | 596 | 629 | 702 | 809 | 953 | 131 |
| 37 | 70582 | 68576 | 66610 | 64683 | 62790 | 60935 | 59113 |
| 38 | 562 | 556 | 591 | 664 | 772 | 917 | 095 |
| 39 | 542 | 537 | 572 | 645 | 754 | 899 | 077 |
| 40 | 70522 | 68518 | 66553 | 64626 | 62736 | 60881 | 59059 |
| 41 | 501 | 498 | 533 | 607 | 717 | 862 | 041 |
| 42 | 480 | 478 | 513 | 588 | 698 | 843 | 023 |
| 43 | 70460 | 68458 | 66493 | 64569 | 62679 | 60824 | 59005 |
| 44 | 440 | 438 | 473 | 550 | 660 | 805 | 58987 |
| 45 | 420 | 418 | 494 | 531 | 641 | 787 | 58969 |
| 46 | 70400 | 68398 | 66435 | 64512 | 62622 | 60769 | 58951 |
| 47 | 380 | 378 | 416 | 493 | 603 | 751 | 933 |
| 48 | 360 | 358 | 397 | 474 | 585 | 733 | 915 |
| 49 | 70340 | 68339 | 66378 | 64455 | 62567 | 60715 | 58897 |
| 50 | 320 | 320 | 359 | 436 | 549 | 697 | 879 |
| 51 | 299 | 300 | 339 | 416 | 530 | 678 | 861 |
| 52 | 70278 | 68280 | 66319 | 64397 | 62511 | 60659 | 58843 |
| 53 | 258 | 260 | 299 | 378 | 492 | 640 | 825 |
| 54 | 238 | 240 | 279 | 359 | 473 | 622 | 807 |
| 55 | 70218 | 68220 | 66260 | 64340 | 62454 | 60604 | 58789 |
| 56 | 198 | 200 | 241 | 321 | 435 | 586 | 771 |
| 57 | 178 | 180 | 222 | 302 | 416 | 568 | 753 |
| 58 | 70158 | 68160 | 66203 | 64283 | 62398 | 60550 | 58735 |
| 59 | 138 | 141 | 184 | 264 | 380 | 532 | 717 |
| 60 | 118 | 122 | 165 | 245 | 361 | 514 | 699 |
| 61 | 70097 | 68101 | 66145 | 64226 | 62343 | 60495 | 58681 |
| 62 | 076 | 082 | 125 | 207 | 324 | 476 | 663 |
| 63 | 056 | 062 | 105 | 188 | 305 | 457 | 645 |
| 64 | 70036 | 68042 | 66085 | 64169 | 62286 | 60439 | 58627 |
| 65 | 70016 | 022 | 066 | 150 | 267 | 421 | 609 |
| 66 | 69996 | 002 | 047 | 131 | 248 | 403 | 591 |

| | 4900 | 5000 | 5100 | 5200 | 5300 | 5400 | 5500 |
|---|---|---|---|---|---|---|---|
| 66 | 69996 | 68002 | 66047 | 64131 | 62248 | 60403 | 58591 |
| 67 | 976 | 67982 | 66028 | 112 | 230 | 385 | 573 |
| 68 | 956 | 963 | 66009 | 093 | 212 | 367 | 555 |
| 69 | 936 | 943 | 65990 | 074 | 194 | 349 | 537 |
| 70 | 69916 | 67924 | 65971 | 64055 | 62176 | 60331 | 58519 |
| 71 | 895 | 904 | 951 | 036 | 157 | 312 | 501 |
| 72 | 875 | 884 | 931 | 64017 | 138 | 293 | 483 |
| 73 | 69855 | 67864 | 65911 | 63998 | 62119 | 60274 | 58465 |
| 74 | 835 | 844 | 892 | 979 | 100 | 256 | 447 |
| 75 | 815 | 824 | 873 | 960 | 081 | 238 | 429 |
| 76 | 69795 | 67804 | 65854 | 63941 | 62062 | 60220 | 58411 |
| 77 | 775 | 784 | 835 | 922 | 044 | 202 | 393 |
| 78 | 755 | 765 | 816 | 903 | 026 | 184 | 375 |
| 79 | 69735 | 67746 | 65797 | 63884 | 62008 | 60166 | 58357 |
| 80 | 715 | 727 | 778 | 866 | 61990 | 148 | 340 |
| 81 | 695 | 707 | 758 | 847 | 61971 | 129 | 322 |
| 82 | 69675 | 67687 | 65738 | 63828 | 61952 | 60110 | 58304 |
| 83 | 655 | 667 | 718 | 809 | 933 | 092 | 286 |
| 84 | 635 | 647 | 699 | 790 | 914 | 074 | 268 |
| 85 | 69615 | 67628 | 65680 | 63771 | 61895 | 60056 | 58250 |
| 86 | 595 | 608 | 661 | 752 | 876 | 038 | 232 |
| 87 | 575 | 588 | 642 | 733 | 858 | 020 | 214 |
| 88 | 69555 | 67569 | 65623 | 63714 | 61840 | 60002 | 58196 |
| 89 | 535 | 549 | 604 | 695 | 822 | 59984 | 178 |
| 90 | 515 | 529 | 585 | 677 | 804 | 59966 | 161 |
| 91 | 69495 | 67510 | 65565 | 63658 | 61785 | 59947 | 58143 |
| 92 | 475 | 490 | 545 | 639 | 766 | 928 | 125 |
| 93 | 455 | 470 | 526 | 620 | 747 | 910 | 107 |
| 94 | 69435 | 67450 | 65507 | 63601 | 61728 | 59892 | 58089 |
| 95 | 415 | 430 | 488 | 582 | 709 | 874 | 071 |
| 96 | 395 | 410 | 469 | 563 | 691 | 856 | 053 |
| 97 | 69375 | 67391 | 65450 | 63544 | 61673 | 59838 | 58035 |
| 98 | 355 | 372 | 431 | 525 | 655 | 820 | 58017 |
| 99 | 335 | 353 | 412 | 506 | 637 | 802 | 57999 |

| | 5600 | 5700 | 5800 | 5900 | 6000 | 6100 | 6200 |
|---|---|---|---|---|---|---|---|
| 0 | 57982 | 56212 | 54473 | 52763 | 51083 | 49430 | 47804 |
| 1 | 964 | 194 | 455 | 746 | 066 | 413 | 787 |
| 2 | 946 | 176 | 437 | 729 | 049 | 396 | 770 |
| 3 | 928 | 158 | 419 | 712 | 032 | 379 | 754 |
| 4 | 57910 | 56140 | 54402 | 52695 | 51015 | 49362 | 47738 |
| 5 | 892 | 122 | 385 | 678 | 50998 | 346 | 722 |
| 6 | 874 | 105 | 368 | 661 | 50981 | 330 | 706 |
| 7 | 57856 | 56088 | 54351 | 52644 | 50964 | 49314 | 47690 |
| 8 | 838 | 071 | 334 | 627 | 948 | 298 | 674 |
| 9 | 820 | 054 | 317 | 610 | 932 | 282 | 658 |
| 10 | 57803 | 56037 | 54300 | 52594 | 50916 | 49266 | 47642 |
| 11 | 785 | 019 | 282 | 577 | 899 | 249 | 626 |
| 12 | 767 | 56001 | 264 | 560 | 882 | 232 | 610 |
| 13 | 57749 | 55983 | 54247 | 52543 | 50865 | 49215 | 47594 |
| 14 | 731 | 965 | 230 | 526 | 848 | 198 | 578 |
| 15 | 713 | 947 | 213 | 509 | 831 | 182 | 562 |
| 16 | 57695 | 55930 | 54196 | 52492 | 50814 | 49166 | 47546 |
| 17 | 677 | 913 | 179 | 475 | 798 | 150 | 530 |
| 18 | 659 | 896 | 162 | 458 | 782 | 134 | 514 |
| 19 | 57642 | 55879 | 54145 | 52441 | 50766 | 49118 | 47498 |
| 20 | 625 | 862 | 128 | 425 | 750 | 102 | 482 |
| 21 | 607 | 844 | 110 | 408 | 733 | 085 | 465 |
| 22 | 57589 | 55826 | 54093 | 52391 | 50716 | 49068 | 47449 |
| 23 | 571 | 808 | 076 | 374 | 699 | 051 | 433 |
| 24 | 553 | 790 | 059 | 357 | 682 | 035 | 417 |
| 25 | 57535 | 55772 | 54042 | 52340 | 50665 | 49019 | 47401 |
| 26 | 517 | 755 | 025 | 323 | 648 | 49003 | 385 |
| 27 | 499 | 738 | 54008 | 306 | 632 | 48987 | 369 |
| 28 | 57482 | 55721 | 53991 | 52289 | 50616 | 48971 | 47353 |
| 29 | 465 | 704 | 974 | 272 | 600 | 955 | 337 |
| 30 | 448 | 687 | 957 | 256 | 584 | 939 | 321 |
| 31 | 57430 | 55669 | 53939 | 52239 | 50567 | 48922 | 47304 |
| 32 | 412 | 651 | 921 | 222 | 550 | 905 | 288 |
| 33 | 394 | 633 | 904 | 205 | 533 | 888 | 272 |

| | 5600 | 5700 | 5800 | 5900 | 6000 | 6100 | 6200 |
|---|---|---|---|---|---|---|---|
| 33 | 57394 | 55633 | 53904 | 52205 | 50533 | 48888 | 47272 |
| 34 | 376 | 615 | 887 | 188 | 516 | 872 | 256 |
| 35 | 358 | 598 | 870 | 171 | 499 | 856 | 240 |
| 36 | 340 | 581 | 853 | 154 | 482 | 840 | 224 |
| 37 | 57322 | 55564 | 53836 | 52137 | 50466 | 48824 | 47208 |
| 38 | 304 | 547 | 819 | 120 | 450 | 808 | 192 |
| 39 | 387 | 530 | 802 | 104 | 434 | 792 | 176 |
| 40 | 57270 | 55513 | 53785 | 52088 | 50418 | 48776 | 47160 |
| 41 | 252 | 495 | 767 | 071 | 401 | 759 | 144 |
| 42 | 234 | 477 | 750 | 054 | 384 | 742 | 128 |
| 43 | 57216 | 55459 | 53733 | 52037 | 50367 | 48725 | 47112 |
| 44 | 198 | 441 | 716 | 020 | 350 | 709 | 096 |
| 45 | 180 | 424 | 699 | 52003 | 333 | 693 | 080 |
| 46 | 57162 | 55407 | 53682 | 51986 | 50317 | 48677 | 47064 |
| 47 | 144 | 390 | 665 | 969 | 301 | 661 | 048 |
| 48 | 127 | 373 | 648 | 952 | 285 | 645 | 032 |
| 49 | 57110 | 55356 | 53631 | 51935 | 50269 | 48629 | 47016 |
| 50 | 093 | 339 | 614 | 919 | 253 | 613 | 47000 |
| 51 | 075 | 321 | 597 | 902 | 236 | 596 | 46984 |
| 52 | 57057 | 55303 | 53580 | 51885 | 50219 | 48579 | 46968 |
| 53 | 039 | 285 | 563 | 868 | 202 | 563 | 952 |
| 54 | 021 | 267 | 546 | 851 | 185 | 547 | 936 |
| 55 | 57003 | 55250 | 53529 | 51834 | 50168 | 48531 | 46920 |
| 56 | 56985 | 233 | 512 | 817 | 152 | 515 | 904 |
| 57 | 56967 | 216 | 495 | 800 | 136 | 499 | 888 |
| 58 | 56950 | 55199 | 53478 | 51783 | 50120 | 48483 | 46872 |
| 59 | 933 | 182 | 461 | 767 | 104 | 467 | 856 |
| 60 | 916 | 165 | 444 | 751 | 088 | 451 | 840 |
| 61 | 56898 | 55148 | 53426 | 51734 | 50071 | 48434 | 46824 |
| 62 | 880 | 129 | 409 | 717 | 054 | 417 | 808 |
| 63 | 862 | 111 | 392 | 700 | 037 | 401 | 792 |
| 64 | 56844 | 55093 | 53375 | 51683 | 50020 | 48385 | 46776 |
| 65 | 826 | 076 | 358 | 666 | 50003 | 369 | 760 |
| 66 | 808 | 059 | 341 | 649 | 49987 | 353 | 744 |

| | 5600 | 5700 | 5800 | 5900 | 6000 | 6100 | 6200 |
|---|---|---|---|---|---|---|---|
| 66 | 56808 | 55059 | 53341 | 51649 | 49987 | 48353 | 46744 |
| 67 | 791 | 042 | 324 | 632 | 971 | 337 | 728 |
| 68 | 774 | 025 | 307 | 616 | 955 | 321 | 712 |
| 69 | 757 | 55008 | 290 | 600 | 939 | 305 | 696 |
| 70 | 56740 | 54991 | 53273 | 51584 | 49923 | 48289 | 46681 |
| 71 | 722 | 973 | 256 | 567 | 906 | 272 | 665 |
| 72 | 704 | 955 | 239 | 550 | 889 | 255 | 649 |
| 73 | 56686 | 54937 | 53222 | 51533 | 49872 | 48239 | 46633 |
| 74 | 668 | 920 | 205 | 516 | 855 | 223 | 617 |
| 75 | 650 | 903 | 188 | 499 | 838 | 207 | 601 |
| 76 | 56632 | 54886 | 53171 | 51482 | 49822 | 48191 | 46585 |
| 77 | 614 | 869 | 154 | 465 | 806 | 175 | 569 |
| 78 | 597 | 852 | 137 | 448 | 790 | 159 | 553 |
| 79 | 56580 | 54835 | 53120 | 51432 | 49774 | 48143 | 46537 |
| 80 | 563 | 818 | 103 | 416 | 758 | 127 | 521 |
| 81 | 545 | 800 | 086 | 399 | 741 | 110 | 505 |
| 82 | 56527 | 54782 | 53069 | 51382 | 49724 | 48093 | 46489 |
| 83 | 509 | 764 | 052 | 365 | 707 | 077 | 473 |
| 84 | 491 | 747 | 035 | 348 | 690 | 061 | 457 |
| 85 | 56473 | 54730 | 53018 | 51331 | 49674 | 48045 | 46441 |
| 86 | 455 | 713 | 53001 | 314 | 658 | 029 | 425 |
| 87 | 438 | 696 | 52984 | 297 | 642 | 48013 | 409 |
| 88 | 56421 | 54679 | 52967 | 51281 | 49626 | 47997 | 46393 |
| 89 | 404 | 662 | 950 | 265 | 610 | 981 | 377 |
| 90 | 387 | 645 | 933 | 249 | 594 | 965 | 362 |
| 91 | 56369 | 54627 | 52916 | 51232 | 49577 | 47948 | 46346 |
| 92 | 351 | 609 | 899 | 215 | 560 | 932 | 330 |
| 93 | 333 | 592 | 882 | 198 | 543 | 916 | 314 |
| 94 | 56315 | 54575 | 52865 | 51181 | 49526 | 47900 | 46298 |
| 95 | 297 | 558 | 848 | 164 | 510 | 884 | 282 |
| 96 | 280 | 541 | 831 | 147 | 494 | 868 | 266 |
| 97 | 56263 | 54524 | 52814 | 51131 | 49478 | 47852 | 46250 |
| 98 | 246 | 507 | 797 | 115 | 462 | 836 | 234 |
| 99 | 229 | 490 | 780 | 099 | 446 | 820 | 219 |

| | 6300 | 6400 | 6500 | 6600 | 6700 | 6800 | 6900 |
|---|---|---|---|---|---|---|---|
| 0 | 46204 | 44629 | 43078 | 41552 | 40048 | 38566 | 37106 |
| 1 | 188 | 613 | 062 | 536 | 033 | 551 | 091 |
| 2 | 172 | 597 | 046 | 520 | 018 | 536 | 076 |
| 3 | 156 | 581 | 030 | 505 | 40003 | 521 | 061 |
| 4 | 46140 | 44565 | 43015 | 41490 | 39988 | 38506 | 37046 |
| 5 | 124 | 549 | 43000 | 475 | 973 | 491 | 032 |
| 6 | 108 | 533 | 42985 | 460 | 958 | 476 | 018 |
| 7 | 46092 | 44518 | 42970 | 41445 | 39943 | 38461 | 37004 |
| 8 | 076 | 503 | 955 | 430 | 928 | 447 | 36990 |
| 9 | 060 | 488 | 940 | 415 | 913 | 433 | 36976 |
| 10 | 46045 | 44473 | 42925 | 41400 | 39899 | 38419 | 36962 |
| 11 | 029 | 457 | 909 | 384 | 884 | 404 | 947 |
| 12 | 46013 | 441 | 893 | 369 | 869 | 389 | 932 |
| 13 | 45997 | 44425 | 42877 | 41354 | 39854 | 38374 | 36917 |
| 14 | 981 | 409 | 861 | 339 | 839 | 359 | 902 |
| 15 | 965 | 393 | 846 | 324 | 824 | 344 | 887 |
| 16 | 45949 | 44377 | 42831 | 41309 | 39809 | 38329 | 36873 |
| 17 | 933 | 362 | 816 | 294 | 794 | 315 | 859 |
| 18 | 917 | 347 | 801 | 279 | 779 | 301 | 845 |
| 19 | 45902 | 44332 | 42786 | 41264 | 39764 | 38287 | 36831 |
| 20 | 887 | 317 | 771 | 249 | 750 | 273 | 817 |
| 21 | 871 | 301 | 755 | 233 | 735 | 258 | 802 |
| 22 | 45855 | 44285 | 42739 | 41218 | 39720 | 38243 | 36787 |
| 23 | 839 | 269 | 723 | 203 | 705 | 228 | 772 |
| 24 | 823 | 253 | 708 | 188 | 690 | 213 | 757 |
| 25 | 45807 | 44237 | 42693 | 41173 | 39675 | 38198 | 36743 |
| 26 | 791 | 221 | 678 | 158 | 660 | 183 | 729 |
| 27 | 775 | 206 | 663 | 143 | 645 | 169 | 715 |
| 28 | 45759 | 44191 | 42648 | 41128 | 39630 | 38155 | 36701 |
| 29 | 743 | 176 | 633 | 113 | 615 | 141 | 687 |
| 30 | 728 | 161 | 618 | 098 | 601 | 127 | 673 |
| 31 | 45712 | 44145 | 42602 | 41082 | 39586 | 38112 | 36658 |
| 32 | 696 | 129 | 586 | 067 | 571 | 097 | 643 |
| 33 | 680 | 113 | 570 | 052 | 556 | 082 | 628 |

| | 6300 | 6400 | 6500 | 6600 | 6700 | 6800 | 6900 |
|---|---|---|---|---|---|---|---|
| 33 | 45680 | 44113 | 42570 | 41052 | 39556 | 38082 | 36628 |
| 34 | 664 | 097 | 555 | 037 | 541 | 067 | 613 |
| 35 | 648 | 081 | 540 | 022 | 526 | 052 | 598 |
| 36 | 632 | 066 | 525 | 41007 | 511 | 037 | 584 |
| 37 | 45616 | 44051 | 42510 | 40992 | 39496 | 38022 | 36570 |
| 38 | 601 | 036 | 495 | 977 | 481 | 38008 | 556 |
| 39 | 586 | 021 | 480 | 962 | 466 | 37994 | 542 |
| 40 | 45571 | 44006 | 42465 | 40947 | 39452 | 37980 | 36528 |
| 41 | 555 | 43990 | 449 | 932 | 437 | 965 | 513 |
| 42 | 539 | 43974 | 433 | 917 | 422 | 950 | 498 |
| 43 | 45523 | 43958 | 42417 | 40902 | 39407 | 37935 | 36483 |
| 44 | 507 | 942 | 402 | 887 | 392 | 920 | 468 |
| 45 | 491 | 926 | 387 | 872 | 377 | 905 | 454 |
| 46 | 45475 | 43910 | 42372 | 40857 | 39362 | 37890 | 36440 |
| 47 | 459 | 895 | 357 | 842 | 347 | 876 | 426 |
| 48 | 444 | 880 | 342 | 827 | 332 | 862 | 412 |
| 49 | 45429 | 43865 | 42327 | 40812 | 39318 | 37848 | 36398 |
| 50 | 413 | 850 | 312 | 797 | 304 | 834 | 384 |
| 51 | 397 | 834 | 296 | 782 | 289 | 819 | 369 |
| 52 | 45381 | 43818 | 42280 | 40767 | 39274 | 37804 | 36354 |
| 53 | 365 | 802 | 264 | 752 | 259 | 789 | 339 |
| 54 | 349 | 786 | 249 | 737 | 244 | 774 | 325 |
| 55 | 45333 | 43771 | 42234 | 40722 | 39229 | 37759 | 36311 |
| 56 | 317 | 756 | 219 | 707 | 214 | 744 | 297 |
| 57 | 301 | 741 | 204 | 692 | 199 | 730 | 283 |
| 58 | 45286 | 43726 | 42189 | 40677 | 39184 | 37716 | 36269 |
| 59 | 271 | 711 | 174 | 662 | 170 | 702 | 255 |
| 60 | 256 | 696 | 159 | 647 | 156 | 688 | 241 |
| 61 | 45240 | 43680 | 42143 | 40632 | 39141 | 37673 | 36226 |
| 62 | 224 | 664 | 127 | 617 | 126 | 658 | 211 |
| 63 | 208 | 648 | 112 | 602 | 111 | 643 | 196 |
| 64 | 45192 | 43632 | 42097 | 40587 | 39096 | 37628 | 36181 |
| 65 | 176 | 616 | 082 | 572 | 081 | 613 | 167 |
| 66 | 160 | 601 | 067 | 557 | 066 | 598 | 153 |

| | 6300 | 6400 | 6500 | 6600 | 6700 | 6800 | 6900 |
|---|---|---|---|---|---|---|---|
| 66 | 45160 | 43601 | 42067 | 40557 | 39066 | 37598 | 36153 |
| 67 | 144 | 586 | 052 | 542 | 051 | 584 | 139 |
| 68 | 129 | 571 | 037 | 527 | 036 | 570 | 125 |
| 69 | 114 | 556 | 022 | 512 | 022 | 556 | 111 |
| 70 | 45099 | 43541 | 42007 | 40497 | 39008 | 37542 | 36097 |
| 71 | 083 | 525 | 41991 | 482 | 38993 | 527 | 082 |
| 72 | 067 | 509 | 41975 | 467 | 38978 | 512 | 067 |
| 73 | 45051 | 43493 | 41960 | 40452 | 38963 | 37497 | 36052 |
| 74 | 035 | 477 | 945 | 437 | 948 | 482 | 038 |
| 75 | 019 | 461 | 930 | 422 | 933 | 467 | 024 |
| 76 | 45003 | 43446 | 41915 | 40407 | 38918 | 37453 | 36010 |
| 77 | 44987 | 431 | 900 | 392 | 903 | 439 | 35996 |
| 78 | 44972 | 416 | 885 | 377 | 889 | 425 | 35982 |
| 79 | 44957 | 43401 | 41870 | 40362 | 38875 | 37411 | 35968 |
| 80 | 942 | 386 | 855 | 347 | 861 | 397 | 954 |
| 81 | 926 | 370 | 839 | 332 | 846 | 382 | 939 |
| 82 | 44910 | 43354 | 41823 | 40317 | 38831 | 37367 | 35924 |
| 83 | 894 | 338 | 808 | 402 | 816 | 352 | 909 |
| 84 | 878 | 322 | 793 | 287 | 801 | 337 | 894 |
| 85 | 44862 | 43307 | 41778 | 40272 | 38786 | 37322 | 35880 |
| 86 | 846 | 292 | 763 | 257 | 771 | 307 | 866 |
| 87 | 830 | 277 | 748 | 242 | 756 | 293 | 852 |
| 88 | 44815 | 43262 | 41733 | 40227 | 38741 | 37279 | 35838 |
| 89 | 800 | 247 | 718 | 212 | 727 | 265 | 824 |
| 90 | 785 | 232 | 703 | 197 | 713 | 251 | 810 |
| 91 | 44769 | 43216 | 41687 | 40182 | 38698 | 37236 | 35795 |
| 92 | 753 | 200 | 672 | 167 | 683 | 221 | 780 |
| 93 | 737 | 184 | 657 | 152 | 668 | 206 | 765 |
| 94 | 44721 | 43168 | 41642 | 40137 | 38653 | 37191 | 35751 |
| 95 | 705 | 153 | 627 | 122 | 638 | 176 | 737 |
| 96 | 689 | 138 | 612 | 107 | 623 | 162 | 723 |
| 97 | 44674 | 43123 | 41597 | 40092 | 38608 | 37148 | 35709 |
| 98 | 659 | 108 | 582 | 077 | 594 | 134 | 695 |
| 99 | 644 | 093 | 567 | 062 | 580 | 120 | 681 |

| | 7000 | 7100 | 7200 | 7300 | 7400 | 7500 | 7600 |
|---|---|---|---|---|---|---|---|
| 0 | 35667 | 34249 | 32850 | 31471 | 30110 | 28768 | 27444 |
| 1 | 652 | 234 | 836 | 457 | 096 | 754 | 430 |
| 2 | 637 | 220 | 822 | 443 | 082 | 740 | 416 |
| 3 | 623 | 206 | 808 | 429 | 068 | 726 | 403 |
| 4 | 35609 | 34192 | 32794 | 31415 | 30054 | 28713 | 27390 |
| 5 | 595 | 178 | 780 | 401 | 040 | 700 | 377 |
| 6 | 581 | 164 | 766 | 387 | 027 | 687 | 364 |
| 7 | 35567 | 34150 | 32752 | 31373 | 30014 | 28674 | 27351 |
| 8 | 553 | 136 | 738 | 360 | 30001 | 661 | 338 |
| 9 | 539 | 122 | 725 | 347 | 29988 | 648 | 325 |
| 10 | 35525 | 34108 | 32712 | 31334 | 29975 | 28635 | 27312 |
| 11 | 510 | 094 | 698 | 320 | 961 | 621 | 298 |
| 12 | 495 | 080 | 684 | 306 | 947 | 607 | 285 |
| 13 | 35481 | 34066 | 32670 | 31292 | 29933 | 28593 | 27272 |
| 14 | 466 | 052 | 656 | 278 | 919 | 580 | 259 |
| 15 | 452 | 038 | 642 | 264 | 906 | 567 | 246 |
| 16 | 35438 | 34024 | 32628 | 31250 | 29893 | 28554 | 27233 |
| 17 | 424 | 34010 | 614 | 236 | 880 | 541 | 220 |
| 18 | 420 | 33996 | 600 | 223 | 867 | 528 | 207 |
| 19 | 35396 | 33982 | 32586 | 31210 | 29854 | 28515 | 27194 |
| 20 | 382 | 968 | 573 | 197 | 841 | 502 | 181 |
| 21 | 367 | 953 | 559 | 183 | 827 | 488 | 167 |
| 22 | 35353 | 33939 | 32545 | 31169 | 29813 | 28474 | 27154 |
| 23 | 338 | 925 | 531 | 155 | 799 | 460 | 141 |
| 24 | 324 | 911 | 517 | 141 | 785 | 447 | 128 |
| 25 | 35310 | 33897 | 32503 | 31127 | 29771 | 28434 | 27115 |
| 26 | 296 | 883 | 489 | 113 | 758 | 421 | 102 |
| 27 | 282 | 869 | 475 | 100 | 745 | 408 | 089 |
| 28 | 35268 | 33855 | 32461 | 31087 | 29732 | 28395 | 27076 |
| 29 | 254 | 841 | 448 | 074 | 719 | 382 | 063 |
| 30 | 240 | 827 | 435 | 061 | 706 | 369 | 050 |
| 31 | 35225 | 33813 | 32421 | 31047 | 29692 | 28355 | 27036 |
| 32 | 211 | 799 | 407 | 033 | 678 | 341 | 023 |
| 33 | 196 | 785 | 393 | 019 | 664 | 327 | 010 |

| | 7000 | 7100 | 7200 | 7300 | 7400 | 7500 | 7600 |
|---|---|---|---|---|---|---|---|
| 33 | 35196 | 33785 | 32393 | 31019 | 29664 | 28327 | 27010 |
| 34 | 182 | 771 | 379 | 31005 | 650 | 314 | 26997 |
| 35 | 168 | 757 | 365 | 30991 | 636 | 301 | 984 |
| 36 | 154 | 743 | 351 | 30977 | 623 | 288 | 971 |
| 37 | 35140 | 33729 | 32337 | 30964 | 29610 | 28275 | 26958 |
| 38 | 126 | 715 | 323 | 951 | 597 | 262 | 945 |
| 39 | 112 | 701 | 309 | 938 | 584 | 249 | 932 |
| 40 | 35098 | 33687 | 32296 | 30925 | 29571 | 28236 | 26919 |
| 41 | 083 | 673 | 282 | 911 | 557 | 222 | 905 |
| 42 | 069 | 659 | 268 | 897 | 543 | 208 | 892 |
| 43 | 35054 | 33645 | 32254 | 30883 | 29529 | 28195 | 26879 |
| 44 | 040 | 631 | 240 | 869 | 515 | 182 | 866 |
| 45 | 026 | 617 | 226 | 855 | 502 | 169 | 853 |
| 46 | 35012 | 33603 | 32212 | 30841 | 29489 | 28156 | 26840 |
| 47 | 34998 | 589 | 198 | 827 | 476 | 143 | 827 |
| 48 | 34984 | 575 | 184 | 814 | 463 | 130 | 814 |
| 49 | 34970 | 33561 | 32171 | 30801 | 29450 | 28117 | 26801 |
| 50 | 956 | 547 | 158 | 788 | 437 | 104 | 788 |
| 51 | 941 | 533 | 144 | 774 | 423 | 090 | 774 |
| 52 | 34927 | 33519 | 32130 | 30760 | 29409 | 28076 | 26761 |
| 53 | 912 | 505 | 116 | 746 | 395 | 062 | 748 |
| 54 | 898 | 491 | 102 | 732 | 381 | 049 | 735 |
| 55 | 34884 | 33477 | 32088 | 30718 | 29368 | 28036 | 26722 |
| 56 | 870 | 463 | 074 | 704 | 355 | 023 | 709 |
| 57 | 856 | 449 | 060 | 691 | 342 | 28010 | 696 |
| 58 | 34842 | 33435 | 32046 | 30678 | 29329 | 27997 | 26683 |
| 59 | 828 | 421 | 033 | 665 | 316 | 984 | 670 |
| 60 | 814 | 407 | 020 | 652 | 303 | 971 | 657 |
| 61 | 34799 | 33393 | 32006 | 30638 | 29289 | 27957 | 26644 |
| 62 | 785 | 379 | 31992 | 624 | 275 | 943 | 631 |
| 63 | 770 | 365 | 31978 | 610 | 261 | 930 | 618 |
| 64 | 34756 | 33351 | 31964 | 30596 | 29247 | 27917 | 26605 |
| 65 | 742 | 337 | 950 | 582 | 234 | 904 | 592 |
| 66 | 728 | 323 | 936 | 569 | 221 | 891 | 579 |

| | 7000 | 7100 | 7200 | 7300 | 7400 | 7500 | 7600 |
|---|---|---|---|---|---|---|---|
| 66 | 34728 | 33323 | 31936 | 30569 | 29221 | 27891 | 26579 |
| 67 | 714 | 309 | 922 | 556 | 208 | 878 | 566 |
| 68 | 700 | 295 | 909 | 543 | 195 | 865 | 553 |
| 69 | 686 | 281 | 896 | 530 | 182 | 852 | 540 |
| 70 | 34672 | 33268 | 31883 | 30517 | 29169 | 27839 | 26527 |
| 71 | 657 | 254 | 869 | 503 | 155 | 825 | 514 |
| 72 | 643 | 240 | 855 | 489 | 141 | 811 | 501 |
| 73 | 34629 | 33226 | 31841 | 30475 | 29127 | 27798 | 26488 |
| 74 | 615 | 212 | 827 | 461 | 113 | 785 | 475 |
| 75 | 601 | 198 | 813 | 447 | 100 | 772 | 462 |
| 76 | 34587 | 33184 | 31799 | 30434 | 29087 | 27759 | 26449 |
| 77 | 573 | 170 | 785 | 420 | 074 | 746 | 436 |
| 78 | 559 | 156 | 771 | 407 | 061 | 733 | 423 |
| 79 | 34545 | 33142 | 31758 | 30394 | 29048 | 27720 | 26410 |
| 80 | 531 | 129 | 745 | 381 | 035 | 707 | 397 |
| 81 | 516 | 115 | 731 | 367 | 021 | 694 | 383 |
| 82 | 34502 | 33101 | 31717 | 30353 | 29007 | 27680 | 26370 |
| 83 | 488 | 087 | 703 | 339 | 28993 | 667 | 357 |
| 84 | 474 | 073 | 689 | 325 | 28980 | 653 | 344 |
| 85 | 34460 | 33059 | 31675 | 30311 | 28967 | 27640 | 26331 |
| 86 | 446 | 045 | 661 | 298 | 954 | 627 | 318 |
| 87 | 432 | 031 | 647 | 285 | 941 | 614 | 305 |
| 88 | 34418 | 33017 | 31634 | 30272 | 28928 | 27601 | 26292 |
| 89 | 404 | 33003 | 621 | 259 | 915 | 588 | 279 |
| 90 | 390 | 32989 | 608 | 246 | 902 | 575 | 266 |
| 91 | 34375 | 32975 | 31594 | 30232 | 28888 | 27561 | 26253 |
| 92 | 361 | 961 | 580 | 218 | 874 | 548 | 240 |
| 93 | 347 | 947 | 566 | 204 | 860 | 535 | 227 |
| 94 | 34333 | 32933 | 31552 | 30190 | 28846 | 27522 | 26214 |
| 95 | 319 | 919 | 538 | 176 | 833 | 509 | 201 |
| 96 | 305 | 905 | 524 | 162 | 820 | 496 | 188 |
| 97 | 34291 | 32891 | 31510 | 30149 | 28807 | 27483 | 26175 |
| 98 | 277 | 877 | 497 | 136 | 794 | 470 | 162 |
| 99 | 263 | 863 | 484 | 123 | 781 | 457 | 149 |

| | 7700 | 7800 | 7900 | 8000 | 8100 | 8200 | 8300 |
|---|---|---|---|---|---|---|---|
| 66 | 25282 | 24002 | 22738 | 21491 | 20260 | 19043 | 17841 |
| 67 | 269 | 23989 | 726 | 479 | 248 | 031 | 829 |
| 68 | 256 | 977 | 714 | 467 | 236 | 019 | 817 |
| 69 | 243 | 965 | 702 | 455 | 224 | 19007 | 805 |
| 70 | 25231 | 23953 | 22690 | 21443 | 20212 | 18995 | 17793 |
| 71 | 218 | 940 | 677 | 430 | 199 | 982 | 781 |
| 72 | 205 | 927 | 664 | 417 | 186 | 970 | 769 |
| 73 | 25192 | 23914 | 22651 | 21404 | 20173 | 18958 | 17757 |
| 74 | 179 | 901 | 638 | 391 | 161 | 946 | 745 |
| 75 | 166 | 888 | 625 | 379 | 149 | 934 | 733 |
| 76 | 25153 | 23875 | 22613 | 21367 | 20137 | 18922 | 17721 |
| 77 | 140 | 862 | 601 | 355 | 125 | 910 | 709 |
| 78 | 127 | 850 | 589 | 343 | 113 | 898 | 697 |
| 79 | 25115 | 23838 | 22577 | 21331 | 20101 | 18886 | 17685 |
| 80 | 103 | 826 | 565 | 319 | 089 | 874 | 674 |
| 81 | 090 | 813 | 552 | 306 | 076 | 861 | 662 |
| 82 | 25077 | 23800 | 22539 | 21293 | 20063 | 18849 | 17650 |
| 83 | 064 | 787 | 526 | 280 | 051 | 837 | 638 |
| 84 | 051 | 774 | 513 | 268 | 039 | 825 | 626 |
| 85 | 25038 | 23761 | 22500 | 21256 | 20027 | 18813 | 17614 |
| 86 | 025 | 748 | 487 | 244 | 015 | 801 | 602 |
| 87 | 25012 | 735 | 475 | 232 | 20003 | 789 | 590 |
| 88 | 24999 | 23723 | 22463 | 21220 | 19991 | 18777 | 17578 |
| 89 | 986 | 711 | 451 | 208 | 979 | 765 | 566 |
| 90 | 974 | 699 | 439 | 196 | 967 | 753 | 554 |
| 91 | 24961 | 23686 | 22426 | 21183 | 19954 | 18741 | 17542 |
| 92 | 948 | 673 | 413 | 170 | 941 | 729 | 530 |
| 93 | 935 | 660 | 400 | 157 | 929 | 717 | 518 |
| 94 | 24922 | 23647 | 22387 | 21144 | 19917 | 18705 | 17506 |
| 95 | 909 | 634 | 374 | 132 | 905 | 693 | 494 |
| 96 | 896 | 621 | 362 | 120 | 893 | 681 | 482 |
| 97 | 24883 | 23608 | 22350 | 21108 | 19881 | 18669 | 17470 |
| 98 | 870 | 596 | 338 | 096 | 869 | 657 | 458 |
| 99 | 858 | 584 | 326 | 084 | 857 | 645 | 446 |

| | 8400 | 8500 | 8600 | 8700 | 8800 | 8900 | 9000 |
|---|---|---|---|---|---|---|---|
| 0 | 17435 | 16252 | 15082 | 13926 | 12783 | 11653 | 10536 |
| 1 | 423 | 240 | 070 | 914 | 771 | 642 | 524 |
| 2 | 411 | 228 | 058 | 902 | 759 | 630 | 513 |
| 3 | 399 | 216 | 046 | 890 | 747 | 619 | 502 |
| 4 | 17387 | 16204 | 15034 | 13878 | 12736 | 11607 | 10491 |
| 5 | 375 | 192 | 022 | 866 | 725 | 596 | 480 |
| 6 | 363 | 180 | 15010 | 855 | 714 | 585 | 469 |
| 7 | 17351 | 16168 | 14999 | 13844 | 12703 | 11574 | 10468 |
| 8 | 339 | 156 | 988 | 833 | 692 | 563 | 447 |
| 9 | 327 | 145 | 977 | 822 | 681 | 552 | 436 |
| 10 | 17316 | 16134 | 14966 | 13811 | 12670 | 11541 | 10425 |
| 11 | 304 | 122 | 954 | 799 | 659 | 529 | 413 |
| 12 | 292 | 110 | 942 | 787 | 647 | 518 | 402 |
| 13 | 17280 | 16098 | 14930 | 13775 | 12636 | 11506 | 10391 |
| 14 | 268 | 086 | 918 | 763 | 624 | 495 | 380 |
| 15 | 256 | 074 | 906 | 752 | 613 | 484 | 369 |
| 16 | 17244 | 16062 | 14894 | 13741 | 12601 | 11473 | 10358 |
| 17 | 232 | 050 | 883 | 730 | 590 | 462 | 347 |
| 18 | 220 | 039 | 872 | 719 | 578 | 451 | 336 |
| 19 | 17208 | 16028 | 14861 | 13708 | 12567 | 11440 | 10325 |
| 20 | 197 | 017 | 850 | 697 | 556 | 429 | 314 |
| 21 | 185 | 16005 | 838 | 685 | 544 | 417 | 302 |
| 22 | 17173 | 15993 | 14826 | 13673 | 12533 | 11406 | 10291 |
| 23 | 161 | 981 | 814 | 661 | 521 | 394 | 280 |
| 24 | 149 | 969 | 802 | 649 | 510 | 383 | 269 |
| 25 | 17137 | 15957 | 14790 | 13637 | 12498 | 11372 | 10258 |
| 26 | 125 | 945 | 778 | 626 | 487 | 361 | 247 |
| 27 | 113 | 933 | 767 | 615 | 476 | 350 | 236 |
| 28 | 17101 | 15922 | 14756 | 13604 | 12465 | 11339 | 10225 |
| 29 | 090 | 911 | 745 | 593 | 454 | 328 | 214 |
| 30 | 079 | 900 | 734 | 582 | 443 | 317 | 203 |
| 31 | 17067 | 15888 | 14722 | 13570 | 12431 | 11305 | 10192 |
| 32 | 055 | 876 | 710 | 558 | 420 | 294 | 181 |
| 33 | 043 | 864 | 698 | 546 | 408 | 282 | 170 |

| | 8400 | 8500 | 8600 | 8700 | 8800 | 8900 | 9000 |
|---|---|---|---|---|---|---|---|
| 33 | 17043 | 15864 | 14698 | 13546 | 12408 | 11282 | 10170 |
| 34 | 031 | 852 | 686 | 534 | 397 | 271 | 159 |
| 35 | 019 | 840 | 674 | 522 | 385 | 260 | 148 |
| 36 | 17007 | 828 | 662 | 511 | 374 | 249 | 137 |
| 37 | 16995 | 15816 | 14651 | 13500 | 12363 | 11238 | 10126 |
| 38 | 983 | 804 | 640 | 489 | 352 | 227 | 115 |
| 39 | 971 | 793 | 629 | 478 | 341 | 216 | 104 |
| 40 | 16960 | 15782 | 14618 | 13467 | 12330 | 11205 | 10093 |
| 41 | 948 | 770 | 607 | 455 | 318 | 193 | 081 |
| 42 | 936 | 758 | 595 | 443 | 307 | 182 | 070 |
| 43 | 16924 | 15746 | 14584 | 13431 | 12295 | 11170 | 10059 |
| 44 | 912 | 734 | 572 | 419 | 284 | 159 | 048 |
| 45 | 900 | 722 | 561 | 408 | 272 | 148 | 037 |
| 46 | 16888 | 15710 | 14549 | 13397 | 12261 | 11137 | 10026 |
| 47 | 876 | 698 | 538 | 386 | 250 | 126 | 10015 |
| 48 | 864 | 687 | 526 | 375 | 239 | 115 | 10004 |
| 49 | 16853 | 15676 | 14515 | 13364 | 12228 | 11104 | 9993 |
| 50 | 842 | 665 | 503 | 353 | 217 | 093 | 982 |
| 51 | 830 | 653 | 491 | 341 | 205 | 081 | 971 |
| 52 | 16818 | 15641 | 14479 | 13329 | 12194 | 11070 | 9960 |
| 53 | 806 | 629 | 467 | 318 | 182 | 058 | 949 |
| 54 | 794 | 617 | 455 | 306 | 171 | 047 | 938 |
| 55 | 16782 | 15605 | 14443 | 13295 | 12159 | 11036 | 9927 |
| 56 | 770 | 593 | 431 | 283 | 148 | 025 | 916 |
| 57 | 758 | 581 | 420 | 272 | 137 | 014 | 905 |
| 58 | 16746 | 15570 | 14409 | 13261 | 12126 | 11003 | 9894 |
| 59 | 735 | 559 | 398 | 250 | 115 | 10992 | 883 |
| 60 | 724 | 548 | 387 | 239 | 104 | 10981 | 872 |
| 61 | 16712 | 15536 | 14375 | 13227 | 12092 | 10969 | 9861 |
| 62 | 700 | 524 | 363 | 215 | 081 | 958 | 850 |
| 63 | 688 | 512 | 351 | 203 | 069 | 947 | 839 |
| 64 | 16676 | 15500 | 14339 | 13191 | 12058 | 10936 | 9818 |
| 65 | 664 | 488 | 327 | 180 | 046 | 925 | 817 |
| 66 | 652 | 476 | 316 | 169 | 035 | 914 | 806 |

| | 8400 | 8500 | 8600 | 8700 | 8800 | 8900 | 9000 |
|---|---|---|---|---|---|---|---|
| 66 | 16652 | 15476 | 14316 | 13169 | 12035 | 10914 | 9806 |
| 67 | 640 | 465 | 305 | 158 | 024 | 903 | 795 |
| 68 | 628 | 454 | 294 | 147 | 013 | 892 | 784 |
| 69 | 616 | 443 | 283 | 136 | 12002 | 881 | 773 |
| 70 | 16605 | 15432 | 14272 | 13125 | 11991 | 10870 | 9761 |
| 71 | 593 | 420 | 260 | 113 | 979 | 858 | 750 |
| 72 | 581 | 408 | 248 | 101 | 968 | 847 | 739 |
| 73 | 16569 | 15396 | 14236 | 13089 | 11956 | 10835 | 9728 |
| 74 | 557 | 384 | 224 | 077 | 945 | 824 | 717 |
| 75 | 545 | 372 | 212 | 066 | 933 | 813 | 706 |
| 76 | 16533 | 15360 | 14200 | 13055 | 11922 | 10802 | 9695 |
| 77 | 521 | 348 | 189 | 044 | 911 | 791 | 684 |
| 78 | 509 | 337 | 178 | 033 | 900 | 780 | 673 |
| 79 | 16498 | 15326 | 14167 | 13022 | 11889 | 10769 | 9662 |
| 80 | 487 | 315 | 156 | 13011 | 878 | 758 | 651 |
| 81 | 475 | 303 | 144 | 12999 | 866 | 746 | 640 |
| 82 | 16463 | 15291 | 14132 | 12987 | 11855 | 10735 | 9629 |
| 83 | 451 | 279 | 120 | 975 | 843 | 724 | 618 |
| 84 | 439 | 267 | 108 | 963 | 832 | 713 | 607 |
| 85 | 16427 | 15255 | 14096 | 12952 | 11821 | 10702 | 9596 |
| 86 | 415 | 243 | 085 | 941 | 810 | 691 | 585 |
| 87 | 403 | 232 | 074 | 930 | 799 | 680 | 574 |
| 88 | 16392 | 15221 | 14063 | 12919 | 11788 | 10669 | 9563 |
| 89 | 381 | 210 | 052 | 908 | 777 | 658 | 552 |
| 90 | 370 | 199 | 041 | 897 | 766 | 647 | 541 |
| 91 | 16358 | 15187 | 14029 | 12885 | 11754 | 10635 | 9530 |
| 92 | 346 | 175 | 017 | 873 | 743 | 624 | 519 |
| 93 | 334 | 163 | 14005 | 861 | 731 | 613 | 508 |
| 94 | 16322 | 15151 | 13993 | 12849 | 11720 | 10602 | 9497 |
| 95 | 310 | 139 | 981 | 838 | 708 | 591 | 486 |
| 96 | 298 | 127 | 970 | 827 | 697 | 580 | 475 |
| 97 | 16286 | 15115 | 13959 | 12816 | 11686 | 10569 | 9464 |
| 98 | 274 | 104 | 948 | 805 | 675 | 558 | 453 |
| 99 | 263 | 093 | 937 | 794 | 664 | 547 | 442 |

| | 9100 | 9200 | 9300 | 9400 | 9500 | 9600 | 9700 |
|---|---|---|---|---|---|---|---|
| 0 | 9431 | 8338 | 7257 | 6188 | 5129 | 4082 | 3046 |
| 1 | 420 | 327 | 246 | 177 | 118 | 071 | 035 |
| 2 | 409 | 316 | 235 | 166 | 107 | 060 | 024 |
| 3 | 398 | 305 | 224 | 155 | 096 | 049 | 013 |
| 4 | 9387 | 8294 | 7213 | 6144 | 5085 | 4038 | 3003 |
| 5 | 376 | 283 | 202 | 133 | 074 | 028 | 2993 |
| 6 | 365 | 272 | 191 | 122 | 064 | 018 | 2983 |
| 7 | 9354 | 8261 | 7180 | 6111 | 5054 | 4008 | 2973 |
| 8 | 343 | 250 | 170 | 101 | 044 | 3998 | 963 |
| 9 | 332 | 239 | 160 | 091 | 034 | 3988 | 953 |
| 10 | 9321 | 8229 | 7150 | 6081 | 5024 | 3978 | 2943 |
| 11 | 310 | 218 | 139 | 070 | 013 | 967 | 932 |
| 12 | 299 | 207 | 128 | 059 | 5002 | 956 | 921 |
| 13 | 9288 | 8196 | 7117 | 6048 | 4991 | 3945 | 2910 |
| 14 | 277 | 185 | 106 | 037 | 980 | 934 | 900 |
| 15 | 266 | 174 | 095 | 026 | 969 | 924 | 890 |
| 16 | 9255 | 8163 | 7084 | 6015 | 4959 | 3914 | 2880 |
| 17 | 244 | 152 | 073 | 6005 | 949 | 904 | 870 |
| 18 | 233 | 141 | 062 | 5995 | 939 | 894 | 860 |
| 19 | 9222 | 8131 | 7052 | 5985 | 4929 | 3884 | 2850 |
| 20 | 211 | 121 | 042 | 975 | 919 | 874 | 840 |
| 21 | 200 | 110 | 031 | 964 | 908 | 864 | 829 |
| 22 | 9189 | 8099 | 7020 | 5953 | 4897 | 3853 | 2818 |
| 23 | 178 | 088 | 7009 | 942 | 886 | 842 | 807 |
| 24 | 167 | 077 | 6998 | 931 | 875 | 831 | 797 |
| 25 | 9156 | 8066 | 6987 | 5920 | 4864 | 3820 | 2787 |
| 26 | 145 | 055 | 976 | 909 | 854 | 810 | 777 |
| 27 | 134 | 044 | 965 | 899 | 844 | 800 | 767 |
| 28 | 9123 | 8033 | 6955 | 5889 | 4834 | 3790 | 2757 |
| 29 | 112 | 023 | 945 | 879 | 824 | 780 | 747 |
| 30 | 102 | 013 | 935 | 869 | 814 | 770 | 737 |
| 31 | 9091 | 8002 | 6924 | 5858 | 4803 | 3759 | 2726 |
| 32 | 080 | 7991 | 913 | 847 | 792 | 748 | 715 |
| 33 | 069 | 7980 | 902 | 836 | 781 | 737 | 704 |

| | 9100 | 9200 | 9300 | 9400 | 9500 | 9600 | 9700 |
|---|---|---|---|---|---|---|---|
| 33 | 9069 | 7980 | 6902 | 5836 | 4781 | 3737 | 2704 |
| 34 | 058 | 969 | 891 | 825 | 770 | 726 | 694 |
| 35 | 047 | 958 | 880 | 814 | 759 | 716 | 684 |
| 36 | 036 | 947 | 869 | 803 | 749 | 706 | 674 |
| 37 | 9025 | 7936 | 6858 | 5793 | 4739 | 3696 | 2664 |
| 38 | 9014 | 925 | 848 | 783 | 729 | 686 | 654 |
| 39 | 9003 | 914 | 838 | 773 | 719 | 676 | 644 |
| 40 | 8992 | 7904 | 6828 | 5763 | 4709 | 3666 | 2634 |
| 41 | 981 | 893 | 817 | 752 | 698 | 656 | 623 |
| 42 | 970 | 881 | 806 | 741 | 687 | 645 | 612 |
| 43 | 8959 | 7871 | 6795 | 5730 | 4676 | 3634 | 2602 |
| 44 | 948 | 860 | 784 | 719 | 665 | 623 | 592 |
| 45 | 937 | 849 | 773 | 708 | 654 | 613 | 582 |
| 46 | 8926 | 7838 | 6762 | 5697 | 4644 | 3603 | 2572 |
| 47 | 915 | 827 | 751 | 687 | 634 | 593 | 562 |
| 48 | 904 | 816 | 741 | 677 | 624 | 583 | 552 |
| 49 | 8893 | 7806 | 6731 | 5667 | 4614 | 3573 | 2542 |
| 50 | 883 | 796 | 721 | 657 | 604 | 563 | 532 |
| 51 | 872 | 785 | 710 | 646 | 593 | 553 | 521 |
| 52 | 8861 | 7774 | 6699 | 5635 | 4582 | 3542 | 2510 |
| 53 | 850 | 763 | 688 | 624 | 571 | 531 | 500 |
| 54 | 839 | 752 | 677 | 613 | 560 | 520 | 490 |
| 55 | 8828 | 7741 | 6666 | 5602 | 4550 | 3509 | 2480 |
| 56 | 817 | 730 | 655 | 591 | 540 | 499 | 470 |
| 57 | 806 | 719 | 644 | 581 | 530 | 489 | 460 |
| 58 | 8795 | 7708 | 6634 | 5571 | 4520 | 3479 | 2450 |
| 59 | 784 | 698 | 624 | 561 | 510 | 469 | 440 |
| 60 | 774 | 688 | 614 | 551 | 500 | 459 | 430 |
| 61 | 8763 | 7677 | 6603 | 5540 | 4489 | 3449 | 2419 |
| 62 | 752 | 666 | 592 | 529 | 478 | 438 | 408 |
| 63 | 741 | 655 | 581 | 518 | 467 | 427 | 397 |
| 64 | 8730 | 7644 | 6570 | 5507 | 4456 | 3416 | 2387 |
| 65 | 719 | 633 | 559 | 496 | 445 | 406 | 377 |
| 66 | 708 | 622 | 548 | 486 | 435 | 396 | 367 |

| | 9100 | 9200 | 9300 | 9400 | 9500 | 9600 | 9700 |
|---|---|---|---|---|---|---|---|
| 66 | 8708 | 7622 | 6548 | 5486 | 4435 | 3396 | 2367 |
| 67 | 697 | 611 | 537 | 476 | 425 | 386 | 357 |
| 68 | 686 | 600 | 527 | 466 | 415 | 376 | 347 |
| 69 | 675 | 590 | 517 | 456 | 405 | 366 | 337 |
| 70 | 8665 | 7580 | 6507 | 5446 | 4395 | 3356 | 2327 |
| 71 | 654 | 569 | 496 | 435 | 384 | 345 | 316 |
| 72 | 643 | 558 | 485 | 424 | 373 | 334 | 305 |
| 73 | 8632 | 7547 | 6474 | 5413 | 4362 | 3323 | 2295 |
| 74 | 621 | 536 | 463 | 402 | 351 | 312 | 285 |
| 75 | 610 | 525 | 452 | 391 | 341 | 302 | 275 |
| 76 | 8599 | 7514 | 6441 | 5380 | 4331 | 3292 | 2265 |
| 77 | 588 | 503 | 430 | 370 | 321 | 282 | 255 |
| 78 | 577 | 492 | 420 | 360 | 311 | 272 | 245 |
| 79 | 8566 | 7482 | 6410 | 5350 | 4301 | 3262 | 2235 |
| 80 | 556 | 472 | 400 | 340 | 291 | 252 | 225 |
| 81 | 545 | 461 | 389 | 329 | 280 | 241 | 214 |
| 82 | 8534 | 7450 | 6378 | 5318 | 4269 | 3230 | 2203 |
| 83 | 523 | 439 | 367 | 307 | 258 | 219 | 192 |
| 84 | 512 | 428 | 356 | 296 | 247 | 209 | 182 |
| 85 | 8501 | 7417 | 6345 | 5285 | 4236 | 3199 | 2172 |
| 86 | 490 | 406 | 334 | 275 | 226 | 189 | 162 |
| 87 | 479 | 395 | 324 | 265 | 216 | 179 | 152 |
| 88 | 8468 | 7385 | 6314 | 5255 | 4206 | 3169 | 2142 |
| 89 | 457 | 375 | 304 | 245 | 196 | 159 | 132 |
| 90 | 447 | 365 | 294 | 235 | 186 | 149 | 122 |
| 91 | 8436 | 7354 | 6283 | 5224 | 4175 | 3138 | 2111 |
| 92 | 425 | 343 | 272 | 213 | 164 | 127 | 100 |
| 93 | 414 | 332 | 261 | 202 | 153 | 116 | 090 |
| 94 | 8403 | 7321 | 6250 | 5191 | 4142 | 3106 | 2080 |
| 95 | 392 | 310 | 239 | 180 | 132 | 096 | 070 |
| 96 | 381 | 299 | 228 | 169 | 122 | 086 | 060 |
| 97 | 8370 | 7288 | 6218 | 5159 | 4112 | 3076 | 2050 |
| 98 | 359 | 277 | 208 | 149 | 102 | 066 | 040 |
| 99 | 348 | 267 | 198 | 139 | 092 | 056 | 030 |

| | 9800 | 9900 |
|---|---|---|
| 0 | 2020 | 1005 |
| 1 | 2009 | 994 |
| 2 | 1998 | 984 |
| 3 | 1988 | 974 |
| 4 | 1978 | 964 |
| 5 | 1968 | 954 |
| 6 | 1958 | 944 |
| 7 | 1948 | 934 |
| 8 | 1938 | 924 |
| 9 | 1928 | 914 |
| 10 | 1918 | 904 |
| 11 | 1907 | 893 |
| 12 | 1896 | 883 |
| 13 | 1886 | 873 |
| 14 | 1876 | 863 |
| 15 | 1866 | 853 |
| 16 | 1856 | 843 |
| 17 | 1846 | 833 |
| 18 | 1836 | 823 |
| 19 | 1826 | 813 |
| 20 | 1816 | 803 |
| 21 | 1805 | 792 |
| 22 | 1795 | 782 |
| 23 | 1785 | 772 |
| 24 | 1775 | 762 |
| 25 | 1765 | 752 |
| 26 | 1755 | 742 |
| 27 | 1745 | 732 |
| 28 | 1735 | 722 |
| 29 | 1725 | 712 |
| 30 | 1715 | 702 |
| 31 | 1704 | 692 |
| 32 | 1693 | 682 |
| 33 | 1683 | 672 |

| | 9800 | 9900 |
|---|---|---|
| 33 | 1683 | 672 |
| 34 | 1673 | 662 |
| 35 | 1663 | 652 |
| 36 | 1653 | 642 |
| 37 | 1643 | 632 |
| 38 | 1633 | 622 |
| 39 | 1623 | 612 |
| 40 | 1613 | 602 |
| 41 | 1602 | 591 |
| 42 | 1592 | 581 |
| 43 | 1582 | 571 |
| 44 | 1571 | 561 |
| 45 | 1561 | 551 |
| 46 | 1551 | 541 |
| 47 | 1541 | 531 |
| 48 | 1531 | 521 |
| 49 | 1521 | 511 |
| 50 | 1511 | 501 |
| 51 | 1500 | 491 |
| 52 | 1490 | 481 |
| 53 | 1480 | 471 |
| 54 | 1470 | 461 |
| 55 | 1460 | 451 |
| 56 | 1450 | 441 |
| 57 | 1440 | 431 |
| 58 | 1430 | 421 |
| 59 | 1420 | 411 |
| 60 | 1410 | 401 |
| 61 | 1399 | 390 |
| 62 | 1388 | 380 |
| 63 | 1378 | 370 |
| 64 | 1368 | 360 |
| 65 | 1358 | 350 |
| 66 | 1348 | 340 |

| | 9800 | 9900 |
|---|---|---|
| 66 | 1348 | 340 |
| 67 | 1338 | 330 |
| 68 | 1328 | 320 |
| 69 | 1318 | 310 |
| 70 | 1308 | 300 |
| 71 | 1297 | 290 |
| 72 | 1287 | 280 |
| 73 | 1277 | 270 |
| 74 | 1267 | 260 |
| 75 | 1257 | 250 |
| 76 | 1247 | 240 |
| 77 | 1237 | 230 |
| 78 | 1227 | 220 |
| 79 | 1217 | 210 |
| 80 | 1207 | 200 |
| 81 | 1196 | 190 |
| 82 | 1186 | 180 |
| 83 | 1176 | 170 |
| 84 | 1166 | 160 |
| 85 | 1156 | 150 |
| 86 | 1146 | 140 |
| 87 | 1136 | 130 |
| 88 | 1126 | 120 |
| 89 | 1116 | 110 |
| 90 | 1106 | 100 |
| 91 | 1095 | 90 |
| 92 | 1085 | 80 |
| 93 | 1075 | 70 |
| 94 | 1065 | 60 |
| 95 | 1055 | 50 |
| 96 | 1045 | 40 |
| 97 | 1035 | 30 |
| 98 | 1025 | 20 |
| 99 | 1015 | 10 |

FINIS.

LOGARITHMORUM

numeris absolutis

competentium.

# TABULA LOGARITHMICA SECUNDA

Continens

# LOGARITHMOS

Graduum & Scrupulorum primorum Quadrantis NEPERIANOS, ad partes Radii 100000.

*Cum appositis Differentiis.*

| ′ | Logar. | Diff. II pro 10 | Meſolog. | Diff... pro 10 | Log | Diff | ′ |
|---|---|---|---|---|---|---|---|
| c | Infinit. | | Infinit. | | 0 | 0 | 60 |
| 1 | 814257 | 11553 | 814257 | 1155 | 0 | 0 | 59 |
| 2 | 744942 | 6758 | 744942 | 6758 | 0 | 0 | 58 |
| 3 | 704396 | 4795 | 704396 | 4795 | 0 | 0 | 57 |
| 4 | 675627 | 3719 | 675627 | 3719 | 0 | 0 | 56 |
| 5 | 653313 | 3039 | 653313 | 3039 | 0 | 0 | 55 |
| 6 | 635081 | 2569 | 635081 | 2509 | 0 | 0 | 54 |
| 7 | 619666 | 2226 | 619666 | 2226 | 0 | 0 | 53 |
| 8 | 606313 | 1963 | 606313 | 1963 | 0 | 0 | 52 |
| 9 | 594535 | 1756 | 594534 | 1756 | 0 | 0 | 51 |
| 10 | 583999 | 1589 | 583998 | 1589 | 0 | 1 | 50 |
| 11 | 74468 | 1450 | 74467 | 1450 | 1 | 0 | 49 |
| 12 | 65766 | 1334 | 65765 | 1334 | 1 | 0 | 48 |
| 13 | 557762 | 1236 | 557762 | 1236 | 1 | 0 | 47 |
| 14 | 50351 | 1150 | 50351 | 1150 | 1 | 0 | 46 |
| 15 | 43452 | 1076 | 43451 | 1076 | 1 | 0 | 45 |
| 16 | 536998 | 1010 | 536997 | 1010 | 1 | 0 | 44 |
| 17 | 30936 | 953 | 30935 | 953 | 1 | 0 | 43 |
| 18 | 25220 | 901 | 25219 | 901 | 1 | 0 | 42 |
| 19 | 519814 | 855 | 519812 | 855 | 2 | 0 | 41 |
| 20 | 14684 | 813 | 14683 | 813 | 2 | 0 | 40 |
| 21 | 09805 | 775 | 09804 | 775 | 2 | 0 | 39 |
| 22 | 505153 | 741 | 505151 | 741 | 2 | 0 | 38 |
| 23 | 00708 | 709 | 00706 | 709 | 2 | 0 | 37 |
| 24 | 496452 | 680 | 496450 | 680 | 2 | 1 | 36 |
| 25 | 492370 | 655 | 492368 | 655 | 3 | 0 | 35 |
| 26 | 88448 | 629 | 88445 | 629 | 3 | 0 | 34 |
| 27 | 84674 | 606 | 84671 | 606 | 3 | 0 | 33 |
| 28 | 481038 | 585 | 481034 | 585 | 3 | 1 | 32 |
| 29 | 77529 | 565 | 77525 | 565 | 4 | 0 | 31 |
| 30 | 74130 | | 74135 | | 4 | | 30 |

| ′ | Logar. | Diff. | Mesolog. | Diff. | Log. | Diff. | |
|---|---|---|---|---|---|---|---|
| | | pro 10″ | | pro 10″ | | | |
| 30 | 474139 | | 474135 | | 4 | 0 | 30 |
| | | 547 | | 547 | | | |
| 31 | 70860 | | 70856 | | 4 | 0 | 29 |
| | | 529 | | 529 | | | |
| 32 | 67685 | | 67681 | | 4 | 1 | 28 |
| | | 513 | | 513 | | | |
| 33 | 64608 | | 64603 | | 5 | 0 | 27 |
| | | 498 | | 498 | | | |
| 34 | 461623 | | 461618 | | 5 | 0 | 26 |
| | | 483 | | 483 | | | |
| 35 | 58724 | | 58719 | | 5 | 0 | 25 |
| | | 469 | | 469 | | | |
| 36 | 55907 | | 55902 | | 5 | 1 | 24 |
| | | 457 | | 457 | | | |
| 37 | 453167 | | 453161 | | 6 | 0 | 23 |
| | | 445 | | 445 | | | |
| 38 | 50500 | | 50494 | | 6 | 0 | 22 |
| | | 433 | | 433 | | | |
| 39 | 47903 | | 47897 | | 6 | 1 | 21 |
| | | 422 | | 422 | | | |
| 40 | 445371 | | 445365 | | 7 | 0 | 20 |
| | | 411 | | 411 | | | |
| 41 | 42902 | | 42895 | | 7 | 0 | 19 |
| | | 402 | | 402 | | | |
| 42 | 40493 | | 40485 | | 7 | 1 | 18 |
| | | 392 | | 392 | | | |
| 43 | 438140 | | 438132 | | 8 | 0 | 17 |
| | | 383 | | 383 | | | |
| 44 | 35841 | | 35833 | | 8 | 1 | 16 |
| | | 375 | | 375 | | | |
| 45 | 33594 | | 33585 | | 9 | 0 | 15 |
| | | 366 | | 366 | | | |
| 46 | 431396 | | 431387 | | 9 | 0 | 14 |
| | | 359 | | 359 | | | |
| 47 | 29245 | | 29236 | | 9 | 1 | 13 |
| | | 351 | | 351 | | | |
| 48 | 27140 | | 27130 | | 10 | 0 | 12 |
| | | 344 | | 344 | | | |
| 49 | 425078 | | 425068 | | 10 | 0 | 11 |
| | | 337 | | 337 | | | |
| 50 | 23058 | | 23048 | | 11 | 1 | 10 |
| | | 330 | | 330 | | | |
| 51 | 21078 | | 21067 | | 11 | 0 | 9 |
| | | 324 | | 324 | | | |
| 52 | 419136 | | 419125 | | 11 | 0 | 8 |
| | | 317 | | 317 | | | |
| 53 | 17232 | | 17220 | | 12 | 1 | 7 |
| | | 312 | | 312 | | | |
| 54 | 15303 | | 15351 | | 12 | 0 | 6 |
| | | 306 | | 306 | | | |
| 55 | 413528 | | 413515 | | 13 | 0 | 5 |
| | | 300 | | 300 | | | |
| 56 | 11726 | | 11713 | | 13 | 1 | 4 |
| | | 295 | | 295 | | | |
| 57 | 09957 | | 09943 | | 14 | 0 | 3 |
| | | 290 | | 290 | | | |
| 58 | 408217 | | 408203 | | 14 | | 2 |
| | | 285 | | 285 | | | |
| 59 | 06508 | | 06493 | | 15 | 1 | 1 |
| | | 280 | | 280 | | | |
| 60 | 04828 | | 04813 | | 15 | 0 | 0 |

| / | Logar. | Diff. // pro 10 | Meſolog. | Diff. // pro 10 | Log. | Diff. | |
|---|---|---|---|---|---|---|---|
| 0 | 404828 | 275 | 404813 | 275 | 15 | 1 | 60 |
| 1 | 403175 | 271 | 3159 | 271 | 16 | 1 | 59 |
| 2 | 401549 | 267 | 401533 | 267 | 16 | 1 | 58 |
| 3 | 399949 | 263 | 399932 | 263 | 17 | 0 | 57 |
| 4 | 398374 | 259 | 398357 | 259 | 17 | 1 | 56 |
| 5 | 6824 | 255 | 6806 | 255 | 18 | 0 | 55 |
| 6 | 5298 | 251 | 5279 | 251 | 18 | 1 | 54 |
| 7 | 393794 | 247 | 393775 | 247 | 19 | 1 | 53 |
| 8 | 2313 | 243 | 2293 | 243 | 20 | 0 | 52 |
| 9 | 0853 | 240 | 390833 | 240 | 20 | 1 | 51 |
| 10 | 389414 | 236 | 389394 | 236 | 21 | 0 | 50 |
| 11 | 7996 | 233 | 7975 | 233 | 21 | 1 | 49 |
| 12 | 6598 | 230 | 6576 | 230 | 22 | 1 | 48 |
| 13 | 385219 | 227 | 385196 | 227 | 23 | 0 | 47 |
| 14 | 3858 | 224 | 3835 | 224 | 23 | 1 | 46 |
| 15 | 2516 | 221 | 2492 | 221 | 24 | 0 | 45 |
| 16 | 381192 | 218 | 381168 | 218 | 24 | 1 | 44 |
| 17 | 379885 | 215 | 379860 | 215 | 25 | 1 | 43 |
| 18 | 8595 | 212 | 8569 | 212 | 26 | 0 | 42 |
| 19 | 377321 | 210 | 377295 | 210 | 26 | 1 | 41 |
| 20 | 6063 | 207 | 6036 | 207 | 27 | 1 | 40 |
| 21 | 4821 | 204 | 4794 | 204 | 28 | 0 | 39 |
| 22 | 373595 | 202 | 373566 | 202 | 28 | 1 | 38 |
| 23 | 2383 | 200 | 2354 | 200 | 29 | 1 | 37 |
| 24 | 1185 | 197 | 371156 | 197 | 30 | 1 | 36 |
| 25 | 370002 | 195 | 369972 | 195 | 31 | 0 | 35 |
| 26 | 368833 | 193 | 8802 | 193 | 31 | 1 | 34 |
| 27 | 7677 | 191 | 7645 | 191 | 32 | 1 | 33 |
| 28 | 366534 | 188 | 366502 | 188 | 33 | 1 | 32 |
| 29 | 5404 | 186 | 5371 | 186 | 34 | 0 | 31 |
| 30 | 4287 | | 4253 | | 34 | | 30 |

| / | Logar. | Diff. // pro 10 | Mesolog. | Diff. // pro 10 | Log. | Diff. | / |
|---|---|---|---|---|---|---|---|
| 30 | 364287 | 184 | 364253 | 184 | 34 | 1 | 30 |
| 31 | 3183 | 182 | 3148 | 182 | 35 | 1 | 29 |
| 32 | 2090 | 180 | 2054 | 180 | 36 | 1 | 28 |
| 33 | 361009 | 178 | 360973 | 178 | 37 | 0 | 27 |
| 34 | 359940 | 176 | 359903 | 176 | 37 | 1 | 26 |
| 35 | 8882 | 175 | 8844 | 175 | 38 | 1 | 25 |
| 36 | 7835 | 173 | 7796 | 173 | 39 | 1 | 24 |
| 37 | 356799 | 171 | 356759 | 171 | 40 | 1 | 23 |
| 38 | 5774 | 169 | 5733 | 169 | 41 | 0 | 22 |
| 39 | 4759 | 168 | 4718 | 168 | 41 | 1 | 21 |
| 40 | 353754 | 166 | 353712 | 166 | 42 | 1 | 20 |
| 41 | 2759 | 164 | 2716 | 164 | 43 | 1 | 19 |
| 42 | 1774 | 162 | 1730 | 162 | 44 | 1 | 18 |
| 43 | 350800 | 161 | 350754 | 161 | 45 | 1 | 17 |
| 44 | 349833 | 159 | 349787 | 159 | 46 | 1 | 16 |
| 45 | 8877 | 158 | 8830 | 158 | 47 | 1 | 15 |
| 46 | 347929 | 156 | 347881 | 156 | 48 | 0 | 14 |
| 47 | 6990 | 155 | 6942 | 155 | 48 | 1 | 13 |
| 48 | 6060 | 153 | 6011 | 153 | 49 | 1 | 12 |
| 49 | 345139 | 152 | 345089 | 152 | 50 | 1 | 11 |
| 50 | 4226 | 151 | 4175 | 151 | 51 | 1 | 10 |
| 51 | 3321 | 149 | 3269 | 149 | 52 | 1 | 9 |
| 52 | 342425 | 148 | 342372 | 148 | 53 | 1 | 8 |
| 53 | 1536 | 147 | 1482 | 147 | 54 | 1 | 7 |
| 54 | 340656 | 146 | 340601 | 146 | 55 | 1 | 6 |
| 55 | 339782 | 144 | 339727 | 144 | 56 | 1 | 5 |
| 56 | 8917 | 143 | 8860 | 143 | 57 | 1 | 4 |
| 57 | 8059 | 142 | 8001 | 142 | 58 | 1 | 3 |
| 58 | 337208 | 141 | 337149 | 141 | 59 | 1 | 2 |
| 59 | 6365 | 140 | 6305 | 140 | 60 | 1 | 1 |
| 60 | 5528 | | 5467 | | 61 | | 0 |

| ′ | Logar. | Diff. ,, pro 10 | Mesolo. | Diff. ,, pro 10 | Log. | Diff | ′ |
|---|---|---|---|---|---|---|---|
| 0 | 335528 | 139 | 335467 | 139 | 61 | 1 | 60 |
| 1 | 4699 | 137 | 4637 | 137 | 62 | 1 | 59 |
| 2 | 3876 | 136 | 3813 | 136 | 63 | 1 | 58 |
| 3 | 3060 | 135 | 2996 | 135 | 64 | 1 | 57 |
| 4 | 332251 | 134 | 332186 | 134 | 65 | 1 | 56 |
| 5 | 1448 | 133 | 1382 | 133 | 66 | 1 | 55 |
| 6 | 330651 | 132 | 330584 | 132 | 67 | 1 | 54 |
| 7 | 329861 | 131 | 329793 | 131 | 68 | 1 | 53 |
| 8 | 9077 | 130 | 9008 | 130 | 69 | 1 | 52 |
| 9 | 8299 | 129 | 8229 | 129 | 70 | 2 | 51 |
| 10 | 327527 | 128 | 327456 | 128 | 72 | 1 | 50 |
| 11 | 6762 | 127 | 6689 | 127 | 73 | 1 | 49 |
| 12 | 6001 | 126 | 5928 | 126 | 74 | 1 | 48 |
| 13 | 325247 | 125 | 325172 | 125 | 75 | 1 | 47 |
| 14 | 4498 | 124 | 4422 | 124 | 76 | 1 | 46 |
| 15 | 3755 | 123 | 3678 | 123 | 77 | 1 | 45 |
| 16 | 323018 | 122 | 322939 | 122 | 78 | 1 | 44 |
| 17 | 2285 | 121 | 2206 | 121 | 79 | 2 | 43 |
| 18 | 1559 | 120 | 1478 | 120 | 81 | 1 | 42 |
| 19 | 320837 | 120 | 320755 | 120 | 82 | 1 | 41 |
| 20 | 320120 | 119 | 320038 | 119 | 83 | 1 | 40 |
| 21 | 319409 | 118 | 319325 | 118 | 84 | 1 | 39 |
| 22 | 318703 | 117 | 318618 | 117 | 85 | 2 | 38 |
| 23 | 8001 | 116 | 7915 | 116 | 87 | 1 | 37 |
| 24 | 7305 | 116 | 7217 | 116 | 88 | 1 | 36 |
| 25 | 316613 | 115 | 316524 | 115 | 89 | 1 | 35 |
| 26 | 5926 | 114 | 315836 | 114 | 90 | 1 | 34 |
| 27 | 5244 | 113 | 5153 | 113 | 91 | 2 | 33 |
| 28 | 314567 | 112 | 314474 | 112 | 93 | 1 | 32 |
| 29 | 3894 | 112 | 3800 | 112 | 94 | 1 | 31 |
| 30 | 3225 | | 3130 | | 95 | | 30 |

| ′ | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Log. | Diff. | ′ |
|---|---|---|---|---|---|---|---|
| 30 | 313225 | 111 | 313130 | 111 | 95 | | 30 |
| 31 | 2561 | 110 | 2465 | 110 | 97 | 2 | 29 |
| 32 | 1902 | 109 | 1804 | 109 | 98 | 1 | 28 |
| 33 | 1246 | 109 | 1147 | 109 | 99 | 1 | 27 |
| 34 | 310595 | 108 | 310495 | 108 | 100 | 1 | 26 |
| 35 | 309948 | 107 | 309847 | 107 | 102 | 2 | 25 |
| 36 | 9306 | 106 | 9203 | 106 | 103 | 1 | 24 |
| 37 | 308667 | 106 | 308563 | 106 | 104 | 1 | 23 |
| 38 | 8033 | 105 | 7927 | 105 | 106 | 2 | 22 |
| 39 | 7402 | 104 | 7295 | 104 | 107 | 1 | 21 |
| 40 | 306776 | 104 | 306668 | 104 | 108 | 1 | 20 |
| 41 | 6153 | 103 | 6044 | 103 | 110 | 2 | 19 |
| 42 | 5534 | 102 | 5423 | 102 | 111 | 1 | 18 |
| 43 | 304920 | 102 | 304807 | 101 | 112 | 1 | 17 |
| 44 | 4308 | 101 | 4195 | 101 | 114 | 2 | 16 |
| 45 | 3701 | 100 | 3586 | 100 | 115 | 1 | 15 |
| 46 | 303097 | 100 | 302981 | 100 | 117 | 2 | 14 |
| 47 | 2497 | 99 | 2379 | 99 | 118 | 1 | 13 |
| 48 | 1901 | 99 | 1781 | 99 | 119 | 1 | 12 |
| 49 | 301308 | 98 | 301187 | 98 | 121 | 2 | 11 |
| 50 | 0718 | 97 | 0596 | 97 | 122 | 1 | 10 |
| 51 | 300132 | 97 | 300008 | 97 | 124 | 2 | 9 |
| 52 | 299549 | 96 | 299424 | 96 | 125 | 1 | 8 |
| 53 | 8970 | 95 | 8843 | 95 | 127 | 2 | 7 |
| 54 | 8394 | 95 | 8266 | 95 | 128 | 1 | 6 |
| 55 | 297822 | 94 | 297692 | 94 | 130 | 2 | 5 |
| 56 | 7252 | 94 | 7121 | 94 | 131 | 1 | 4 |
| 57 | 6686 | 93 | 6554 | 93 | 133 | 2 | 3 |
| 58 | 296123 | 93 | 295989 | 93 | 134 | 1 | 2 |
| 59 | 5564 | 93 | 5428 | 93 | 136 | 2 | 1 |
| 60 | 5007 | | 4870 | | 137 | 1 | 0 |

| / | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Log. | Diff. | / |
|---|---|---|---|---|---|---|---|
| 0 | 295007 | 92 | 294870 | 92 | 137 | 2 | 60 |
| 1 | 4454 | 92 | 4315 | 92 | 139 | 1 | 59 |
| 2 | 3903 | 91 | 3763 | 91 | 140 | 2 | 58 |
| 3 | 3356 | 91 | 3214 | 91 | 142 | 1 | 57 |
| 4 | 292811 | 90 | 292668 | 90 | 143 | 2 | 56 |
| 5 | 2270 | 90 | 2125 | 90 | 145 | 1 | 55 |
| 6 | 1731 | 89 | 1585 | 89 | 146 | 2 | 54 |
| 7 | 291196 | 89 | 291047 | 89 | 148 | 2 | 53 |
| 8 | 0663 | 88 | 290513 | 88 | 150 | 1 | 52 |
| 9 | 290133 | 88 | 289982 | 88 | 151 | 2 | 51 |
| 10 | 289606 | 87 | 289453 | 87 | 153 | 1 | 50 |
| 11 | 9081 | 87 | 8927 | 87 | 154 | 2 | 49 |
| 12 | 8560 | 87 | 8404 | 87 | 156 | 2 | 48 |
| 13 | 8041 | 86 | 287883 | 86 | 158 | 1 | 47 |
| 14 | 7524 | 86 | 7365 | 86 | 159 | 2 | 46 |
| 15 | 7012 | 85 | 6850 | 85 | 161 | 2 | 45 |
| 16 | 286500 | 85 | 286337 | 85 | 163 | 1 | 44 |
| 17 | 5991 | 84 | 5827 | 84 | 164 | 2 | 43 |
| 18 | 5486 | 84 | 5320 | 84 | 166 | 2 | 42 |
| 19 | 284982 | 83 | 284815 | 83 | 168 | 1 | 41 |
| 20 | 4482 | 83 | 4313 | 83 | 169 | 2 | 40 |
| 21 | 3984 | 83 | 3813 | 83 | 171 | 2 | 39 |
| 22 | 283488 | 82 | 283315 | 82 | 173 | 1 | 38 |
| 23 | 2995 | 82 | 2820 | 82 | 174 | 2 | 37 |
| 24 | 2504 | 82 | 2328 | 82 | 176 | 2 | 36 |
| 25 | 282015 | 81 | 281837 | 81 | 178 | 2 | 35 |
| 26 | 1529 | 81 | 1350 | 81 | 180 | 1 | 34 |
| 27 | 1046 | 80 | 0864 | 80 | 181 | 2 | 33 |
| 28 | 280564 | 80 | 280381 | 80 | 183 | 2 | 32 |
| 29 | 280085 | 80 | 279900 | 80 | 185 | 2 | 31 |
| 30 | 279608 | 80 | 9422 | | 187 | 2 | 30 |

| ′ | Logar. | Diff. 11 pro 10 | Mesolog. | Diff. 11 pro 10 | Log. | Diff. | ′ |
|---|---|---|---|---|---|---|---|
| 30 | 279608 | 79 | 279422 | 79 | 187 | 1 | 30 |
| 31 | 9134 | 79 | 8946 | 79 | 188 | 2 | 29 |
| 32 | 8662 | 78 | 8472 | 78 | 190 | 2 | 28 |
| 33 | 8192 | 78 | 8000 | 78 | 192 | 2 | 27 |
| 34 | 277724 | 78 | 277530 | 78 | 194 | 2 | 26 |
| 35 | 7258 | 77 | 7063 | 77 | 196 | 2 | 25 |
| 36 | 6795 | 77 | 6598 | 77 | 198 | 1 | 24 |
| 37 | 276334 | 76 | 276134 | 76 | 199 | 2 | 23 |
| 38 | 5875 | 76 | 5674 | 76 | 201 | 2 | 22 |
| 39 | 5418 | 76 | 5215 | 76 | 203 | 2 | 21 |
| 40 | 274963 | 75 | 274758 | 75 | 205 | 2 | 20 |
| 41 | 4510 | 75 | 4303 | 75 | 207 | 2 | 19 |
| 42 | 4059 | 75 | 3850 | 75 | 209 | 2 | 18 |
| 43 | 273610 | 74 | 273400 | 74 | 211 | 1 | 17 |
| 44 | 3163 | 74 | 2951 | 74 | 212 | 2 | 16 |
| 45 | 2718 | 74 | 2504 | 74 | 214 | 2 | 15 |
| 46 | 272276 | 73 | 272059 | 73 | 216 | 2 | 14 |
| 47 | 1835 | 73 | 1617 | 73 | 218 | 2 | 13 |
| 48 | 1396 | 73 | 1176 | 73 | 220 | 2 | 12 |
| 49 | 270959 | 73 | 270737 | 73 | 222 | 2 | 11 |
| 50 | 0524 | 72 | 270300 | 72 | 224 | 2 | 10 |
| 51 | 270091 | 72 | 269865 | 72 | 226 | 2 | 9 |
| 52 | 269659 | 72 | 269431 | 72 | 228 | 2 | 8 |
| 53 | 9230 | 71 | 9000 | 71 | 230 | 2 | 7 |
| 54 | 8802 | 71 | 857c | 71 | 232 | 2 | 6 |
| 55 | 268376 | 71 | 268143 | 71 | 234 | 2 | 5 |
| 56 | 7952 | 71 | 7717 | 71 | 236 | 2 | 4 |
| 57 | 7530 | 70 | 7292 | 70 | 238 | 2 | 3 |
| 58 | 267110 | 70 | 266870 | 70 | 240 | 2 | 2 |
| 59 | 6691 | 70 | 6449 | 70 | 242 | 2 | 1 |
| 60 | 6274 | | 6031 | | 244 | 2 | 0 |

| ′ | Logar. | Diff.″ pro 10 | Mesolog | Diff.″ pro 10 | Log. | Diff. | ′ |
|---|---|---|---|---|---|---|---|
| 0 | 266274 | 69 | 266031 | 69 | 244 | 2 | 60 |
| 1 | 5859 | 69 | 5613 | 69 | 246 | 2 | 59 |
| 2 | 5446 | 69 | 5198 | 69 | 248 | 2 | 58 |
| 3 | 5034 | 69 | 4784 | 69 | 250 | 2 | 57 |
| 4 | 264624 | 68 | 264372 | 68 | 252 | 2 | 56 |
| 5 | 4216 | 68 | 3962 | 68 | 254 | 2 | 55 |
| 6 | 3809 | 68 | 3553 | 68 | 256 | 2 | 54 |
| 7 | 263404 | 68 | 263146 | 68 | 258 | 2 | 53 |
| 8 | 3001 | 67 | 2741 | 67 | 260 | 2 | 52 |
| 9 | 2599 | 67 | 2337 | 67 | 262 | 2 | 51 |
| 10 | 262199 | 67 | 261934 | 67 | 265 | 3 | 50 |
| 11 | 1801 | 67 | 1534 | 67 | 267 | 2 | 49 |
| 12 | 1404 | 66 | 1135 | 66 | 269 | 2 | 48 |
| 13 | 261008 | 66 | 260737 | 66 | 271 | 2 | 47 |
| 14 | 0615 | 66 | 260342 | 66 | 273 | 2 | 46 |
| 15 | 260222 | 65 | 259947 | 65 | 275 | 2 | 45 |
| 16 | 259832 | 65 | 259554 | 65 | 277 | 3 | 44 |
| 17 | 9443 | 65 | 9163 | 65 | 280 | 2 | 43 |
| 18 | 905 | 65 | 8773 | 65 | 282 | 2 | 42 |
| 19 | 258669 | 64 | 258385 | 64 | 284 | 2 | 41 |
| 20 | 8284 | 64 | 7998 | 64 | 286 | 2 | 40 |
| 21 | 7901 | 64 | 7613 | 64 | 288 | 3 | 39 |
| 22 | 257519 | 64 | 257229 | 64 | 291 | 2 | 38 |
| 23 | 7139 | 63 | 6846 | 63 | 293 | 2 | 37 |
| 24 | 6760 | 63 | 6465 | 63 | 295 | 2 | 36 |
| 25 | 256383 | 63 | 256086 | 63 | 297 | 3 | 35 |
| 26 | 6007 | 63 | 5708 | 63 | 300 | 2 | 34 |
| 27 | 5633 | 63 | 5331 | 63 | 302 | 2 | 33 |
| 28 | 255260 | 62 | 254956 | 63 | 304 | 2 | 32 |
| 29 | 4888 | 62 | 4582 | 62 | 306 | 3 | 31 |
| 30 | 4518 | 62 | 4209 | 62 | 309 | | 30 |

| ′ | Logar. | Diff. ,, pro 10 | Mesolog. | Diff. ,, pro 10 | Log. | Diff. | ′ |
|---|---|---|---|---|---|---|---|
| 30 | 254518 | 62 | 254209 | 62 | 309 | 2 | 30 |
| 31 | 4149 | 62 | 3838 | 62 | 311 | 2 | 29 |
| 32 | 3781 | 62 | 3468 | 61 | 313 | 3 | 28 |
| 33 | 3415 | 61 | 3099 | 61 | 316 | 2 | 27 |
| 34 | 253050 | 61 | 252732 | 61 | 318 | 2 | 26 |
| 35 | 2687 | 61 | 2366 | 61 | 320 | 3 | 25 |
| 36 | 2324 | 60 | 2002 | 60 | 323 | 2 | 24 |
| 37 | 251964 | 60 | 251639 | 60 | 325 | 2 | 23 |
| 38 | 1604 | 60 | 1277 | 60 | 327 | 3 | 22 |
| 39 | 1246 | 60 | 0916 | 60 | 330 | 2 | 21 |
| 40 | 250889 | 60 | 250557 | 60 | 332 | 2 | 20 |
| 41 | 0533 | 59 | 250199 | 59 | 334 | 3 | 19 |
| 42 | 250179 | 59 | 249842 | 59 | 337 | 2 | 18 |
| 43 | 249825 | 59 | 249486 | 59 | 339 | 3 | 17 |
| 44 | 9473 | 59 | 9132 | 59 | 342 | 2 | 16 |
| 45 | 9123 | 59 | 8779 | 59 | 344 | 2 | 15 |
| 46 | 248773 | 58 | 248427 | 58 | 346 | 3 | 14 |
| 47 | 8425 | 58 | 8076 | 58 | 349 | 2 | 13 |
| 48 | 8078 | 58 | 7727 | 58 | 351 | 3 | 12 |
| 49 | 247732 | 58 | 247378 | 58 | 354 | 2 | 11 |
| 50 | 7388 | 58 | 7031 | 58 | 356 | 3 | 10 |
| 51 | 7044 | 57 | 6685 | 57 | 359 | 2 | 9 |
| 52 | 246702 | 57 | 246341 | 57 | 361 | 3 | 8 |
| 53 | 6361 | 57 | 5997 | 57 | 364 | 2 | 7 |
| 54 | 6021 | 57 | 5655 | 57 | 366 | 3 | 6 |
| 55 | 245682 | 57 | 245314 | 56 | 369 | 2 | 5 |
| 56 | 5345 | 56 | 4974 | 56 | 371 | 3 | 4 |
| 57 | 5008 | 56 | 4635 | 56 | 374 | 2 | 3 |
| 58 | 244673 | 56 | 244297 | 56 | 376 | 3 | 2 |
| 59 | 4339 | 56 | 3960 | 56 | 379 | 2 | 1 |
| 60 | 4006 | | 3625 | | 381 | | 0 |

| ′ | Logar. | Diff. // |
|---|---|---|
| 0 | 244006 | pro 10 |
| 1 | 3674 | 56 |
| 2 | 3343 | 55 |
| 3 | 3013 | 55 |
| 4 | 242685 | 55 |
| 5 | 2357 | 55 |
| 6 | 2031 | 54 |
| 7 | 241705 | 54 |
| 8 | 1381 | 54 |
| 9 | 1058 | 54 |
| 10 | 240735 | 54 |
| 11 | 240414 | 53 |
| 12 | 240094 | 53 |
| 13 | 239745 | 53 |
| 14 | 9427 | 53 |
| 15 | 9140 | 53 |
| 16 | 238824 | 53 |
| 17 | 8509 | 52 |
| 18 | 8195 | 52 |
| 19 | 237881 | 52 |
| 20 | 7569 | 52 |
| 21 | 7258 | 52 |
| 22 | 236948 | 52 |
| 23 | 6639 | 51 |
| 24 | 6331 | 51 |
| 25 | 236024 | 51 |
| 26 | 5717 | 51 |
| 27 | 5412 | 51 |
| 28 | 235107 | 51 |
| 29 | 4804 | 50 |
| 30 | 4501 | |

| Mesolog. | Diff. // |
|---|---|
| 243625 | pro 10 |
| 3290 | 56 |
| 2957 | 55 |
| 2624 | 55 |
| 242293 | 55 |
| 1963 | 55 |
| 1634 | 54 |
| 241306 | 54 |
| 0979 | 54 |
| 0653 | 54 |
| 240328 | 54 |
| 240004 | 53 |
| 239682 | 53 |
| 239360 | 53 |
| 9039 | 53 |
| 8719 | 53 |
| 238401 | 53 |
| 8083 | 52 |
| 7766 | 52 |
| 237450 | 52 |
| 7136 | 52 |
| 6822 | 52 |
| 236509 | 52 |
| 6197 | 51 |
| 5886 | 51 |
| 235576 | 51 |
| 5267 | 51 |
| 4959 | 51 |
| 234652 | 51 |
| 4345 | 50 |
| 4040 | |

| Log. | Diff. | ′ |
|---|---|---|
| 381 | 3 | 60 |
| 384 | 2 | 59 |
| 386 | 3 | 58 |
| 389 | 2 | 57 |
| 391 | 3 | 56 |
| 394 | 3 | 55 |
| 397 | 2 | 54 |
| 399 | 3 | 53 |
| 402 | 2 | 52 |
| 404 | 3 | 51 |
| 407 | 3 | 50 |
| 410 | 2 | 49 |
| 412 | 3 | 48 |
| 415 | 3 | 47 |
| 418 | 2 | 46 |
| 420 | 3 | 45 |
| 423 | 3 | 44 |
| 426 | 2 | 43 |
| 428 | 3 | 42 |
| 431 | 3 | 41 |
| 434 | 3 | 40 |
| 437 | 2 | 39 |
| 439 | 3 | 38 |
| 442 | 3 | 37 |
| 445 | 2 | 36 |
| 447 | 3 | 35 |
| 450 | 3 | 34 |
| 453 | 3 | 33 |
| 456 | 3 | 32 |
| 459 | 2 | 31 |
| 461 | | 30 |

| / | Logar. | Diff. // pro 10 | Mesolog. | Diff. // pro 10 | Log. | Diff. | / |
|---|---|---|---|---|---|---|---|
| 30 | 234501 | 50 | 234040 | 50 | 461 | 3 | 30 |
| 31 | 4200 | 50 | 3736 | 50 | 464 | 3 | 29 |
| 32 | 3899 | 50 | 3432 | 50 | 467 | 3 | 28 |
| 33 | 3599 | 50 | 3129 | 50 | 470 | 3 | 27 |
| 34 | 233300 | 50 | 232828 | 50 | 473 | 2 | 26 |
| 35 | 3002 | 50 | 2527 | 50 | 475 | 3 | 25 |
| 36 | 2705 | 49 | 2227 | 50 | 478 | 3 | 24 |
| 37 | 232409 | 49 | 231928 | 49 | 481 | 3 | 23 |
| 38 | 2114 | 49 | 1630 | 49 | 484 | 3 | 22 |
| 39 | 1819 | 49 | 1332 | 49 | 487 | 3 | 21 |
| 40 | 231526 | 49 | 231036 | 49 | 490 | 3 | 20 |
| 41 | 1233 | 49 | 0740 | 49 | 493 | 3 | 19 |
| 42 | 0941 | 48 | 0445 | 49 | 496 | 3 | 18 |
| 43 | 230650 | 48 | 230151 | 48 | 499 | 2 | 17 |
| 44 | 0360 | 48 | 229858 | 48 | 501 | 3 | 16 |
| 45 | 230071 | 48 | 9566 | 48 | 504 | 3 | 15 |
| 46 | 229782 | 48 | 229275 | 48 | 507 | 3 | 14 |
| 47 | 9494 | 48 | 8984 | 48 | 510 | 3 | 13 |
| 48 | 9208 | 48 | 8695 | 48 | 513 | 3 | 12 |
| 49 | 228922 | 47 | 228406 | 47 | 516 | 3 | 11 |
| 50 | 8637 | 47 | 8117 | 47 | 519 | 3 | 10 |
| 51 | 8352 | 47 | 7830 | 47 | 522 | 3 | 9 |
| 52 | 228069 | 47 | 227544 | 47 | 525 | 3 | 8 |
| 53 | 7786 | 47 | 7258 | 47 | 528 | 3 | 7 |
| 54 | 7504 | 47 | 6973 | 47 | 531 | 3 | 6 |
| 55 | 227223 | 47 | 226689 | 47 | 534 | 3 | 5 |
| 56 | 6943 | 47 | 6406 | 47 | 537 | 3 | 4 |
| 57 | 6663 | 46 | 6123 | 47 | 540 | 3 | 3 |
| 58 | 226385 | 46 | 225841 | 46 | 543 | 3 | 2 |
| 59 | 6107 | 46 | 5560 | 46 | 546 | 3 | 1 |
| 60 | 5830 | | 5280 | 46 | 549 | 3 | 0 |

| ′ | Logar. | Diff. ″ | Mesolog. | Diff ″ | Log. | Diff. | ′ |
|---|---|---|---|---|---|---|---|
| | | pro 10 | | pro 10 | | | |
| 0 | 225830 | | 225280 | | 549 | 3 | 60 |
| 1 | 5553 | 46 | 5001 | 46 | 552 | 3 | 59 |
| 2 | 5278 | 46 | 4722 | 46 | 555 | 3 | 58 |
| 3 | 5003 | 46 | 4444 | 46 | 558 | 4 | 57 |
| | | 46 | | 46 | | | |
| 4 | 224729 | | 224167 | | 562 | 3 | 56 |
| 5 | 4455 | 45 | 3891 | 46 | 565 | 3 | 55 |
| 6 | 4183 | 45 | 3615 | 46 | 568 | 3 | 54 |
| | | 45 | | 46 | | | |
| 7 | 223911 | | 223340 | | 571 | 3 | 53 |
| 8 | 3640 | 45 | 3066 | 46 | 574 | 3 | 52 |
| 9 | 3369 | 45 | 2792 | 46 | 577 | 3 | 51 |
| | | 45 | | 45 | | | |
| 10 | 223100 | | 222520 | | 580 | 3 | 50 |
| 11 | 2831 | 45 | 2248 | 45 | 583 | 4 | 49 |
| 12 | 2563 | 45 | 1976 | 45 | 587 | 3 | 48 |
| | | 45 | | 45 | | | |
| 13 | 222295 | | 221706 | | 590 | 3 | 47 |
| 14 | 2029 | 44 | 1436 | 45 | 593 | 3 | 46 |
| 15 | 1763 | 44 | 1167 | 45 | 596 | 3 | 45 |
| | | 44 | | 45 | | | |
| 16 | 221498 | | 220898 | | 599 | 3 | 44 |
| 17 | 1233 | 44 | 0631 | 45 | 602 | 4 | 43 |
| 18 | 0969 | 44 | 0363 | 45 | 606 | 3 | 42 |
| | | 44 | | 44 | | | |
| 19 | 220706 | | 220097 | | 609 | 3 | 41 |
| 20 | 0444 | 44 | 219832 | 44 | 612 | 3 | 40 |
| 21 | 220182 | 44 | 9567 | 44 | 615 | 4 | 39 |
| | | 44 | | 44 | | | |
| 22 | 219921 | | 219302 | | 619 | 3 | 38 |
| 23 | 9660 | 44 | 9039 | 44 | 622 | 3 | 37 |
| 24 | 9401 | 43 | 8776 | 44 | 625 | 3 | 36 |
| | | 43 | | 44 | | | |
| 25 | 219142 | | 218514 | | 628 | 4 | 35 |
| 26 | 8884 | 43 | 8252 | 44 | 632 | 3 | 34 |
| 27 | 8626 | 43 | 7991 | 44 | 635 | 3 | 33 |
| | | 43 | | 43 | | | |
| 2. | 218369 | | 217731 | | 638 | 4 | 32 |
| 29 | 8113 | 43 | 7471 | 43 | 642 | 3 | 31 |
| 30 | 7857 | 43 | 7212 | | 645 | | 30 |

| ′ | Logar. | Diff. ,, pro 10 | Mesolog. | Diff. ,, pro 10 | Log. | Diff. | ′ |
|---|---|---|---|---|---|---|---|
| 30 | 217857 | | 217212 | | 645 | | 30 |
| 31 | 7602 | 42 | 6954 | 43 | 648 | 3 | 29 |
| 32 | 7348 | 42 | 6696 | 43 | 651 | 3 | 28 |
| 33 | 7094 | 42 | 6439 | 43 | 655 | 4 | 27 |
| 34 | 216841 | 42 | 216183 | 43 | 658 | 3 | 26 |
| 35 | 6589 | 42 | 5927 | 43 | 662 | 4 | 25 |
| 36 | 6337 | 42 | 5672 | 42 | 665 | 3 | 24 |
| 37 | 216086 | 42 | 215418 | 42 | 668 | 3 | 23 |
| 38 | 5835 | 42 | 5164 | 42 | 672 | 4 | 22 |
| 39 | 5586 | 42 | 4911 | 42 | 675 | 3 | 21 |
| 40 | 215336 | 41 | 214658 | 42 | 678 | 3 | 20 |
| 41 | 5088 | 41 | 4406 | 42 | 682 | 4 | 19 |
| 42 | 4840 | 41 | 4155 | 42 | 685 | 3 | 18 |
| 43 | 214593 | 41 | 213904 | 42 | 689 | 4 | 17 |
| 44 | 4346 | 41 | 3654 | 42 | 692 | 3 | 16 |
| 45 | 4100 | 41 | 3404 | 42 | 696 | 4 | 15 |
| 46 | 213854 | 41 | 213155 | 41 | 699 | 3 | 14 |
| 47 | 3609 | 41 | 2907 | 41 | 702 | 3 | 13 |
| 48 | 3365 | 41 | 2659 | 41 | 706 | 4 | 12 |
| 49 | 213122 | 40 | 212412 | 41 | 709 | 3 | 11 |
| 50 | 2879 | 40 | 2166 | 41 | 713 | 4 | 10 |
| 51 | 2636 | 40 | 1920 | 41 | 716 | 3 | 9 |
| 52 | 212394 | 40 | 211674 | 41 | 720 | 4 | 8 |
| 53 | 2153 | 40 | 1430 | 41 | 723 | 3 | 7 |
| 54 | 1912 | 40 | 1185 | 41 | 727 | 4 | 6 |
| 55 | 211672 | 40 | 210942 | 41 | 730 | 3 | 5 |
| 56 | 1433 | 40 | 0699 | 41 | 734 | 4 | 4 |
| 57 | 1194 | 40 | 0456 | 40 | 737 | 3 | 3 |
| 58 | 210955 | 40 | 210214 | 40 | 741 | 4 | 2 |
| 59 | 0718 | 40 | 209973 | 40 | 745 | 4 | 1 |
| 60 | 0480 | 40 | 9732 | 40 | 748 | 3 | 0 |

| ′ | Logar. | Diff. ″ pro 10 | Mesolo. | Diff. ″ pro 10 | Log. | Diff | ′ |
|---|---|---|---|---|---|---|---|
| 0 | 210480 | 39 | 209732 | 40 | 748 | 4 | 60 |
| 1 | 0244 | 39 | 9492 | 40 | 752 | 3 | 59 |
| 2 | 210008 | 39 | 9253 | 40 | 755 | 4 | 58 |
| 3 | 209772 | 39 | 9013 | 40 | 759 | 3 | 57 |
| 4 | 209537 | 39 | 208775 | 40 | 762 | 4 | 56 |
| 5 | 9303 | 39 | 8537 | 40 | 766 | 4 | 55 |
| 6 | 9069 | 39 | 8299 | 39 | 770 | 3 | 54 |
| 7 | 208836 | 39 | 208063 | 39 | 773 | 4 | 53 |
| 8 | 8603 | 39 | 7826 | 39 | 777 | 4 | 52 |
| 9 | 8371 | 39 | 7590 | 39 | 781 | 3 | 51 |
| 10 | 208139 | 39 | 207355 | 39 | 784 | 4 | 50 |
| 11 | 7908 | 38 | 7120 | 39 | 788 | 4 | 49 |
| 12 | 7678 | 38 | 6886 | 39 | 792 | 3 | 48 |
| 13 | 207448 | 38 | 206653 | 39 | 795 | 4 | 47 |
| 14 | 7218 | 38 | 6419 | 39 | 799 | 4 | 46 |
| 15 | 6989 | 38 | 6187 | 39 | 803 | 3 | 45 |
| 16 | 206761 | 38 | 205955 | 39 | 806 | 4 | 44 |
| 17 | 6533 | 38 | 5723 | 39 | 810 | 4 | 43 |
| 18 | 6306 | 38 | 5492 | 39 | 814 | 4 | 42 |
| 19 | 206079 | 38 | 205261 | 38 | 818 | 3 | 41 |
| 20 | 5853 | 38 | 5032 | 38 | 821 | 4 | 40 |
| 21 | 5627 | 38 | 4802 | 38 | 825 | 4 | 39 |
| 22 | 205402 | 38 | 204573 | 38 | 829 | 4 | 38 |
| 23 | 5177 | 37 | 4344 | 38 | 833 | 3 | 37 |
| 24 | 4953 | 37 | 4116 | 38 | 836 | 4 | 36 |
| 25 | 204729 | 37 | 203889 | 38 | 840 | 4 | 35 |
| 26 | 4506 | 37 | 3662 | 38 | 844 | 4 | 34 |
| 27 | 4283 | 37 | 3435 | 38 | 848 | 3 | 33 |
| 28 | 204061 | 37 | 203209 | 38 | 851 | 4 | 32 |
| 29 | 3839 | 37 | 2984 | 38 | 855 | 4 | 31 |
| 30 | 3618 | | 2759 | | 859 | | 30 |

| ′ | Logar. | Diff. ″ pro 10 | Mesolog. | Diff ″ pro 10 | Logar. | Diff | ′ |
|---|---|---|---|---|---|---|---|
| 30 | 203618 | 37 | 202759 | 38 | 859 | 4 | 30 |
| 31 | 3397 | 37 | 2534 | 37 | 863 | 4 | 29 |
| 32 | 3177 | 37 | 2310 | 37 | 867 | 4 | 28 |
| 33 | 2957 | 37 | 2087 | 37 | 871 | 3 | 27 |
| 34 | 202738 | 37 | 201864 | 37 | 874 | 4 | 26 |
| 35 | 2519 | 36 | 1641 | 37 | 878 | 4 | 25 |
| 36 | 2301 | 36 | 1419 | 37 | 882 | 4 | 24 |
| 37 | 202083 | 36 | 201197 | 37 | 886 | 4 | 23 |
| 38 | 1866 | 36 | 0976 | 37 | 890 | 4 | 22 |
| 39 | 1649 | 36 | 0755 | 37 | 894 | 4 | 21 |
| 40 | 201433 | 36 | 200535 | 37 | 898 | 4 | 20 |
| 41 | 1217 | 36 | 0315 | 37 | 902 | 4 | 19 |
| 42 | 1002 | 36 | 200096 | 37 | 906 | 4 | 18 |
| 43 | 200787 | 36 | 199877 | 36 | 910 | 4 | 17 |
| 44 | 0572 | 36 | 9659 | 36 | 914 | 4 | 16 |
| 45 | 0358 | 36 | 9441 | 36 | 918 | 4 | 15 |
| 46 | 200145 | 36 | 199223 | 36 | 922 | 4 | 14 |
| 47 | 199932 | 36 | 9006 | 36 | 925 | 3 | 13 |
| 48 | 9719 | 35 | 8790 | 36 | 929 | 4 | 12 |
| 49 | 199507 | 35 | 198574 | 36 | 933 | 4 | 11 |
| 50 | 9296 | 35 | 8358 | 36 | 937 | 4 | 10 |
| 51 | 9084 | 35 | 8143 | 36 | 941 | 4 | 9 |
| 52 | 198874 | 35 | 197928 | 36 | 945 | 4 | 8 |
| 53 | 8663 | 35 | 7714 | 36 | 949 | 5 | 7 |
| 54 | 8453 | 35 | 7500 | 36 | 954 | 4 | 6 |
| 55 | 198244 | 35 | 197286 | 36 | 958 | 4 | 5 |
| 56 | 8035 | 35 | 7073 | 35 | 962 | 4 | 4 |
| 57 | 7826 | 35 | 6861 | 35 | 966 | 4 | 3 |
| 58 | 197618 | 35 | 196649 | 35 | 970 | 4 | 2 |
| 59 | 7411 | 35 | 6437 | 35 | 974 | 4 | 1 |
| 60 | 7204 | 35 | 6226 | 35 | 978 | 4 | 0 |

| / | Logar. | Diff. pro 10 | Meſolog. | Diff. pro 10 | Logar. | Diff | / |
|---|---|---|---|---|---|---|---|
| 0 | 197204 | 35 | 196226 | 35 | 978 | 4 | 60 |
| 1 | 6997 | 34 | 6015 | 35 | 982 | 4 | 59 |
| 2 | 6791 | 34 | 5804 | 35 | 986 | 4 | 58 |
| 3 | 6585 | 34 | 5594 | 35 | 990 | 4 | 57 |
| 4 | 196379 | 34 | 195385 | 35 | 994 | 4 | 56 |
| 5 | 6174 | 34 | 5176 | 35 | 998 | 5 | 55 |
| 6 | 5970 | 34 | 4967 | 35 | 1003 | 4 | 54 |
| 7 | 195765 | 34 | 194759 | 35 | 1007 | 4 | 53 |
| 8 | 5562 | 34 | 4551 | 35 | 1011 | 4 | 52 |
| 9 | 5358 | 34 | 4343 | 35 | 1015 | 4 | 51 |
| 10 | 195155 | 34 | 194136 | 34 | 1019 | 4 | 50 |
| 11 | 4953 | 34 | 3930 | 34 | 1023 | 5 | 49 |
| 12 | 4751 | 34 | 3723 | 34 | 1028 | 4 | 48 |
| 13 | 194549 | 34 | 193517 | 34 | 1032 | 4 | 47 |
| 14 | 4348 | 34 | 3312 | 34 | 1036 | 4 | 46 |
| 15 | 4147 | 33 | 3107 | 34 | 1040 | 4 | 45 |
| 16 | 193947 | 33 | 192902 | 34 | 1044 | 5 | 44 |
| 17 | 3747 | 33 | 2698 | 34 | 1049 | 4 | 43 |
| 18 | 3547 | 33 | 2494 | 34 | 1053 | 4 | 42 |
| 19 | 193348 | 33 | 192291 | 34 | 1057 | 4 | 41 |
| 20 | 3149 | 33 | 2088 | 34 | 1061 | 5 | 40 |
| 21 | 2951 | 33 | 1885 | 34 | 1066 | 4 | 39 |
| 22 | 192753 | 33 | 191683 | 34 | 1070 | 4 | 38 |
| 23 | 2555 | 33 | 1481 | 34 | 1074 | 5 | 37 |
| 24 | 2358 | 33 | 1279 | 34 | 1079 | 4 | 36 |
| 25 | 192161 | 33 | 191078 | 33 | 1083 | 4 | 35 |
| 26 | 1965 | 33 | 0878 | 33 | 1087 | 4 | 34 |
| 27 | 1769 | 33 | 0677 | 33 | 1091 | 5 | 33 |
| 28 | 191573 | 33 | 190477 | 33 | 1096 | 4 | 32 |
| 29 | 1378 | 33 | 0278 | 33 | 1100 | 4 | 31 |
| 30 | 1183 | 33 | 0079 | 33 | 1104 | | 30 |

| ′ | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff | ′ |
|---|---|---|---|---|---|---|---|
| 30 | 191183 | 32 | 190079 | 33 | 1104 | 5 | 30 |
| 31 | 0989 | 32 | 189880 | 33 | 1109 | 4 | 29 |
| 32 | 0795 | 32 | 9681 | 33 | 1113 | 5 | 28 |
| 33 | 0601 | 32 | 9483 | 33 | 1118 | 4 | 27 |
| 34 | 190408 | 32 | 189286 | 33 | 1122 | 4 | 26 |
| 35 | 0215 | 32 | 9088 | 33 | 1126 | 5 | 25 |
| 36 | 190022 | 32 | 8891 | 33 | 1131 | 4 | 24 |
| 37 | 189830 | 32 | 188695 | 33 | 1135 | 5 | 23 |
| 38 | 9638 | 32 | 8499 | 33 | 1140 | 4 | 22 |
| 39 | 9447 | 32 | 8303 | 33 | 1144 | 4 | 21 |
| 40 | 189256 | 32 | 188108 | 33 | 1148 | 5 | 20 |
| 41 | 9065 | 32 | 7912 | 32 | 1153 | 4 | 19 |
| 42 | 8875 | 32 | 7718 | 32 | 1157 | 5 | 18 |
| 43 | 188685 | 32 | 187523 | 32 | 1162 | 4 | 17 |
| 44 | 8495 | 32 | 7329 | 32 | 1166 | 5 | 16 |
| 45 | 8306 | 32 | 7136 | 32 | 1171 | 4 | 15 |
| 46 | 188117 | 31 | 186942 | 32 | 1175 | 5 | 14 |
| 47 | 7929 | 31 | 6749 | 32 | 1180 | 4 | 13 |
| 48 | 7741 | 31 | 6557 | 32 | 1184 | 5 | 12 |
| 49 | 187553 | 31 | 186365 | 32 | 1189 | 4 | 11 |
| 50 | 7366 | 31 | 6173 | 32 | 1193 | 5 | 10 |
| 51 | 7179 | 31 | 5981 | 32 | 1198 | 4 | 9 |
| 52 | 186992 | 31 | 185790 | 32 | 1202 | 5 | 8 |
| 53 | 6806 | 31 | 5599 | 32 | 1207 | 4 | 7 |
| 54 | 6620 | 31 | 5409 | 32 | 1211 | 5 | 6 |
| 55 | 186434 | 31 | 185218 | 32 | 1216 | 4 | 5 |
| 56 | 6249 | 31 | 5029 | 32 | 1220 | 5 | 4 |
| 57 | 6064 | 31 | 4839 | 32 | 1225 | 5 | 3 |
| 58 | 185880 | 31 | 184650 | 32 | 1230 | 4 | 2 |
| 59 | 5696 | 31 | 4461 | 31 | 1234 | 5 | 1 |
| 60 | 5512 | | 4273 | | 1239 | | 0 |

| / | Logar. | Diff. 11 pro 10 | Mesolog. | Diff. 11 pro 10 | Logar. | Diff. | / |
|---|---|---|---|---|---|---|---|
| 0 | 185512 | 31 | 184273 | 31 | 1239 | 4 | 60 |
| 1 | 5328 | 31 | 4085 | 31 | 1243 | 5 | 59 |
| 2 | 5145 | 31 | 3897 | 31 | 1248 | 5 | 58 |
| 3 | 4962 | 30 | 3710 | 31 | 1253 | 4 | 57 |
| 4 | 184780 | 30 | 183523 | 31 | 1257 | 5 | 56 |
| 5 | 4598 | 30 | 3336 | 31 | 1262 | 5 | 55 |
| 6 | 4416 | 30 | 3149 | 31 | 1267 | 4 | 54 |
| 7 | 184234 | 30 | 182963 | 31 | 1271 | 5 | 53 |
| 8 | 4053 | 30 | 2777 | 31 | 1276 | 5 | 52 |
| 9 | 3873 | 30 | 2592 | 31 | 1281 | 4 | 51 |
| 10 | 183692 | 30 | 182407 | 31 | 1285 | 5 | 50 |
| 11 | 3512 | 30 | 2222 | 31 | 1290 | 5 | 49 |
| 12 | 3332 | 30 | 2038 | 31 | 1295 | 4 | 48 |
| 13 | 183153 | 30 | 181854 | 31 | 1299 | 5 | 47 |
| 14 | 2974 | 30 | 1670 | 31 | 1304 | 5 | 46 |
| 15 | 2795 | 30 | 1486 | 31 | 1309 | 5 | 45 |
| 16 | 182617 | 30 | 181303 | 31 | 1314 | 4 | 44 |
| 17 | 2438 | 30 | 1120 | 30 | 1318 | 5 | 43 |
| 18 | 2261 | 30 | 0938 | 30 | 1323 | 5 | 42 |
| 19 | 182083 | 30 | 180755 | 30 | 1328 | 5 | 41 |
| 20 | 1906 | 30 | 0573 | 30 | 1333 | 4 | 40 |
| 21 | 1729 | 29 | 0392 | 30 | 1337 | 5 | 39 |
| 22 | 181553 | 29 | 180211 | 30 | 1342 | 5 | 38 |
| 23 | 1377 | 29 | 180029 | 30 | 1347 | 5 | 37 |
| 24 | 1201 | 29 | 179849 | 30 | 1352 | 5 | 36 |
| 25 | 181025 | 29 | 179668 | 30 | 1357 | 4 | 35 |
| 26 | 0850 | 29 | 9488 | 30 | 1361 | 5 | 34 |
| 27 | 0675 | 29 | 9309 | 30 | 1366 | 5 | 33 |
| 28 | 180500 | 29 | 179129 | 30 | 1371 | 5 | 32 |
| 29 | 0326 | 29 | 8950 | 30 | 1376 | 5 | 31 |
| 30 | 0152 | 29 | 8771 | 30 | 1381 | | 30 |

| / | Logar. | Diff. | pro 10 |
|---|---|---|---|
| 30 | 180152 | | |
| 31 | 179978 | 29 | |
| 32 | 9805 | 29 | |
| 33 | 9632 | 29 | |
| | | 29 | |
| 34 | 179459 | | |
| 35 | 9287 | 29 | |
| 36 | 9115 | 29 | |
| | | 29 | |
| 37 | 178943 | | |
| 38 | 8771 | 29 | |
| 39 | 8600 | 29 | |
| | | 29 | |
| 40 | 178429 | | |
| 41 | 8258 | 29 | |
| 42 | 8088 | 28 | |
| | | 28 | |
| 43 | 177918 | | |
| 44 | 7748 | 28 | |
| 45 | 7579 | 28 | |
| | | 28 | |
| 46 | 177410 | | |
| 47 | 7241 | 28 | |
| 48 | 7072 | 28 | |
| | | 28 | |
| 49 | 176904 | | |
| 50 | 6736 | 28 | |
| 51 | 6569 | 28 | |
| | | 28 | |
| 52 | 176401 | | |
| 53 | 6234 | 28 | |
| 54 | 6067 | 28 | |
| | | 28 | |
| 55 | 175901 | | |
| 56 | 5734 | 28 | |
| 57 | 5568 | 28 | |
| | | 28 | |
| 58 | 175403 | | |
| 59 | 5237 | 28 | |
| 60 | 5072 | 28 | |

| Mesolog. | Diff | pro 10 |
|---|---|---|
| 178771 | | |
| 8593 | 30 | |
| 8414 | 30 | |
| 8236 | 30 | |
| | 30 | |
| 178059 | | |
| 7881 | 30 | |
| 7704 | 29 | |
| | 29 | |
| 177528 | | |
| 7351 | 29 | |
| 7175 | 29 | |
| | 29 | |
| 176999 | | |
| 6823 | 29 | |
| 6648 | 29 | |
| | 29 | |
| 176473 | | |
| 6298 | 29 | |
| 6124 | 29 | |
| | 29 | |
| 175950 | | |
| 5776 | 29 | |
| 5602 | 29 | |
| | 29 | |
| 175429 | | |
| 5256 | 29 | |
| 5084 | 29 | |
| | 29 | |
| 174911 | | |
| 4739 | 29 | |
| 4567 | 29 | |
| | 29 | |
| 174395 | | |
| 4224 | 29 | |
| 4053 | 29 | |
| | 29 | |
| 173882 | | |
| 3712 | 28 | |
| 3541 | 28 | |

| Log. | Diff | / |
|---|---|---|
| 1381 | | |
| 1386 | 5 | 30 |
| 1391 | 5 | 29 |
| 1396 | 5 | 28 |
| | 4 | 27 |
| 1400 | | |
| 1405 | 5 | 26 |
| 1410 | 5 | 25 |
| | 5 | 24 |
| 1415 | | |
| 1420 | 5 | 23 |
| 1425 | 5 | 22 |
| | 5 | 21 |
| 1430 | | |
| 1435 | 5 | 20 |
| 1440 | 5 | 19 |
| | 5 | 18 |
| 1445 | | |
| 1450 | 5 | 17 |
| 1455 | 5 | 16 |
| | 5 | 15 |
| 1460 | | |
| 1465 | 5 | 14 |
| 1470 | 5 | 13 |
| | 5 | 12 |
| 1475 | | |
| 1480 | 5 | 11 |
| 1485 | 5 | 10 |
| | 5 | 9 |
| 1490 | | |
| 1495 | 5 | 8 |
| 1500 | 5 | 7 |
| | 5 | 6 |
| 1505 | | |
| 1510 | 5 | 5 |
| 1515 | 5 | 4 |
| | 6 | 3 |
| 1521 | | |
| 1526 | 5 | 2 |
| 1531 | 5 | 1 |
| | | 0 |

| / | Logar. | Diff. II pro 10 | Mesolog. | Diff. II pro 10 | Logar | Diff | / |
|---|---|---|---|---|---|---|---|
| 0 | 175072 | 28 | 173541 | 28 | 1531 | 5 | 60 |
| 1 | 4907 | 27 | 3371 | 28 | 1536 | 5 | 59 |
| 2 | 4743 | 27 | 3201 | 28 | 1541 | 5 | 58 |
| 3 | 4579 | 27 | 3032 | 28 | 1546 | 5 | 57 |
| 4 | 174415 | 27 | 172863 | 28 | 1551 | 6 | 56 |
| 5 | 4251 | 27 | 2694 | 28 | 1557 | 5 | 55 |
| 6 | 4087 | 27 | 2526 | 28 | 1562 | 5 | 54 |
| 7 | 173924 | 27 | 172357 | 28 | 1567 | 5 | 53 |
| 8 | 3761 | 27 | 2189 | 28 | 1572 | 5 | 52 |
| 9 | 3599 | 27 | 2021 | 28 | 1577 | 6 | 51 |
| 10 | 173436 | 27 | 171854 | 28 | 1583 | 5 | 50 |
| 11 | 3274 | 27 | 1687 | 28 | 1588 | 5 | 49 |
| 12 | 3113 | 27 | 1520 | 28 | 1593 | 5 | 48 |
| 13 | 172951 | 27 | 171353 | 28 | 1598 | 6 | 47 |
| 14 | 2790 | 27 | 1186 | 28 | 1604 | 5 | 46 |
| 15 | 2629 | 27 | 1020 | 28 | 1609 | 5 | 45 |
| 16 | 172468 | 27 | 170854 | 28 | 1614 | 5 | 44 |
| 17 | 2308 | 27 | 0688 | 28 | 1619 | 6 | 43 |
| 18 | 2147 | 27 | 0523 | 28 | 1625 | 5 | 42 |
| 19 | 171987 | 27 | 170358 | 28 | 1630 | 5 | 41 |
| 20 | 1828 | 27 | 0193 | 28 | 1635 | 5 | 40 |
| 21 | 1668 | 27 | 170028 | 28 | 1640 | 6 | 39 |
| 22 | 171509 | 27 | 169863 | 27 | 1646 | 5 | 38 |
| 23 | 1350 | 26 | 9699 | 27 | 1651 | 5 | 37 |
| 24 | 1192 | 26 | 9535 | 27 | 1656 | 6 | 36 |
| 25 | 171033 | 26 | 169372 | 27 | 1662 | 5 | 35 |
| 26 | 0871 | 26 | 9208 | 27 | 1667 | 5 | 34 |
| 27 | 0717 | 26 | 9045 | 27 | 1672 | 6 | 33 |
| 28 | 170560 | 26 | 168882 | 27 | 1678 | 5 | 32 |
| 29 | 0403 | 26 | 8719 | 27 | 1683 | 6 | 31 |
| 30 | 0245 | | 8557 | | 1689 | | 30 |

| / | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff | / |
|---|---|---|---|---|---|---|---|
| 30 | 170245 | 26 | 168557 | 27 | 1689 | 5 | 30 |
| 31 | 170089 | 26 | 8395 | 27 | 1694 | 5 | 29 |
| 32 | 169932 | 26 | 8233 | 27 | 1699 | 6 | 28 |
| 33 | 9776 | 26 | 8071 | 27 | 1705 | 5 | 27 |
| 34 | 169620 | 26 | 167909 | 27 | 1710 | 6 | 26 |
| 35 | 9464 | 26 | 7748 | 27 | 1716 | 5 | 25 |
| 36 | 9308 | 26 | 7587 | 27 | 1721 | 6 | 24 |
| 37 | 169153 | 26 | 167426 | 27 | 1727 | 5 | 23 |
| 38 | 8998 | 26 | 7266 | 27 | 1732 | 6 | 22 |
| 39 | 8843 | 26 | 7106 | 27 | 1738 | 5 | 21 |
| 40 | 168689 | 26 | 166946 | 27 | 1743 | 5 | 20 |
| 41 | 8534 | 26 | 6786 | 27 | 1748 | 6 | 19 |
| 42 | 8380 | 26 | 6626 | 27 | 1754 | 5 | 18 |
| 43 | 168226 | 26 | 166467 | 27 | 1759 | 6 | 17 |
| 44 | 8073 | 26 | 6308 | 27 | 1765 | 5 | 16 |
| 45 | 7919 | 26 | 6149 | 27 | 1770 | 6 | 15 |
| 46 | 167766 | 26 | 165990 | 26 | 1776 | 6 | 14 |
| 47 | 7613 | 25 | 5832 | 26 | 1782 | 5 | 13 |
| 48 | 7461 | 25 | 5674 | 26 | 1787 | 6 | 12 |
| 49 | 167308 | 25 | 165516 | 26 | 1793 | 5 | 11 |
| 50 | 7156 | 25 | 5358 | 26 | 1798 | 6 | 10 |
| 51 | 7004 | 25 | 5201 | 26 | 1804 | 5 | 9 |
| 52 | 166853 | 25 | 165043 | 26 | 1809 | 6 | 8 |
| 53 | 6701 | 25 | 4886 | 26 | 1815 | 6 | 7 |
| 54 | 6550 | 25 | 4730 | 26 | 1821 | 5 | 6 |
| 55 | 166399 | 25 | 164573 | 26 | 1826 | 6 | 5 |
| 56 | 6249 | 25 | 4417 | 26 | 1832 | 5 | 4 |
| 57 | 6098 | 25 | 4261 | 26 | 1837 | 6 | 3 |
| 58 | 165948 | 25 | 164105 | 26 | 1843 | 6 | 2 |
| 59 | 5798 | 25 | 3949 | 26 | 1849 | 5 | 1 |
| 60 | 5648 | | 3794 | | 1854 | | 0 |

| 7 | Logar. | Diff. pro 10 | Meſolog. | Diff. pro 10 | Logar. | Diff. | / |
|---|---|---|---|---|---|---|---|
| 0 | 165648 | 25 | 163794 | 26 | 1854 | 6 | 60 |
| 1 | 5499 | 25 | 3639 | 26 | 1860 | 6 | 59 |
| 2 | 5349 | 25 | 3484 | 26 | 1866 | 5 | 58 |
| 3 | 5200 | 25 | 3329 | 26 | 1871 | 6 | 57 |
| 4 | 165051 | 25 | 163174 | 26 | 1877 | 6 | 56 |
| 5 | 4903 | 25 | 3020 | 26 | 1883 | 5 | 55 |
| 6 | 4754 | 25 | 2866 | 26 | 1888 | 6 | 54 |
| 7 | 164606 | 25 | 162712 | 26 | 1894 | 6 | 53 |
| 8 | 4458 | 25 | 2558 | 26 | 1900 | 6 | 52 |
| 9 | 4311 | 25 | 2405 | 26 | 1906 | 5 | 51 |
| 10 | 164163 | 25 | 162252 | 26 | 1911 | 6 | 50 |
| 11 | 4016 | 25 | 2099 | 26 | 1917 | 6 | 49 |
| 12 | 3869 | 25 | 1946 | 26 | 1923 | 6 | 48 |
| 13 | 163722 | 24 | 161793 | 25 | 1929 | 5 | 47 |
| 14 | 3576 | 24 | 1641 | 25 | 1934 | 6 | 46 |
| 15 | 3429 | 24 | 1489 | 25 | 1940 | 6 | 45 |
| 16 | 163283 | 24 | 161337 | 25 | 1946 | 6 | 44 |
| 17 | 3137 | 24 | 1185 | 25 | 1952 | 6 | 43 |
| 18 | 2996 | 24 | 1034 | 25 | 1958 | 5 | 42 |
| 19 | 162846 | 24 | 160883 | 25 | 1963 | 6 | 41 |
| 20 | 2701 | 24 | 0732 | 25 | 1969 | 6 | 40 |
| 21 | 2556 | 24 | 0581 | 25 | 1975 | 6 | 39 |
| 22 | 162411 | 24 | 160430 | 25 | 1981 | 6 | 38 |
| 23 | 2266 | 24 | 0280 | 25 | 1987 | 6 | 37 |
| 24 | 2122 | 24 | 160129 | 25 | 1993 | 5 | 36 |
| 25 | 161978 | 24 | 159979 | 25 | 1998 | 6 | 35 |
| 26 | 1834 | 24 | 9830 | 25 | 2004 | 6 | 34 |
| 27 | 1690 | 24 | 9680 | 25 | 2010 | 6 | 33 |
| 28 | 161547 | 24 | 159531 | 25 | 2016 | 6 | 32 |
| 29 | 1403 | 24 | 9381 | 25 | 2022 | 6 | 31 |
| 30 | 1260 | 24 | 9232 | 25 | 2028 | | 30 |

| / | Logar. | Diff.// pro 10 | Mesolog | Diff.// pro 10 | Logar. | Diff. | d |
|---|---|---|---|---|---|---|---|
| 30 | 161260 | 24 | 159232 | 25 | 2028 | 6 | 30 |
| 31 | 1117 | 24 | 9083 | 25 | 2034 | 6 | 29 |
| 32 | 0975 | 24 | 8935 | 25 | 2040 | 6 | 28 |
| 33 | 0832 | 24 | 8787 | 25 | 2046 | 6 | 27 |
| 34 | 160690 | 24 | 158638 | 25 | 2052 | 6 | 26 |
| 35 | 0548 | 24 | 8490 | 25 | 2058 | 6 | 25 |
| 36 | 160406 | 24 | 8343 | 25 | 2064 | 6 | 24 |
| 37 | 0265 | 24 | 158195 | 25 | 2070 | 6 | 23 |
| 38 | 160123 | 24 | 8048 | 25 | 2076 | 6 | 22 |
| 39 | 159982 | 24 | 7900 | 25 | 2082 | 6 | 21 |
| 40 | 159841 | 24 | 157753 | 24 | 2088 | 6 | 20 |
| 41 | 9700 | 23 | 7607 | 24 | 2094 | 6 | 19 |
| 42 | 9560 | 23 | 7460 | 24 | 2100 | 6 | 18 |
| 43 | 159419 | 23 | 157314 | 24 | 2106 | 6 | 17 |
| 44 | 9279 | 23 | 7167 | 24 | 2112 | 6 | 16 |
| 45 | 9139 | 23 | 7021 | 24 | 2118 | 6 | 15 |
| 46 | 158999 | 23 | 156876 | 24 | 2124 | 6 | 14 |
| 47 | 8860 | 23 | 6730 | 24 | 2130 | 6 | 13 |
| 48 | 8721 | 23 | 6585 | 24 | 2136 | 6 | 12 |
| 49 | 158581 | 23 | 156439 | 24 | 2142 | 6 | 11 |
| 50 | 8442 | 23 | 6294 | 24 | 2148 | 6 | 10 |
| 51 | 8304 | 23 | 6150 | 24 | 2154 | 6 | 9 |
| 52 | 158165 | 23 | 156005 | 24 | 2160 | 6 | 8 |
| 53 | 8027 | 23 | 5861 | 24 | 2166 | 6 | 7 |
| 54 | 7889 | 23 | 5716 | 24 | 2172 | 7 | 6 |
| 55 | 157751 | 23 | 155572 | 24 | 2179 | 6 | 5 |
| 56 | 7613 | 23 | 5428 | 24 | 2185 | 6 | 4 |
| 57 | 7476 | 23 | 5285 | 24 | 2191 | 6 | 3 |
| 58 | 157338 | 23 | 155141 | 24 | 2197 | 6 | 2 |
| 59 | 7201 | 23 | 4998 | 24 | 2203 | 6 | 1 |
| 60 | 7064 | | 4855 | | 2209 | | 0 |

| ′ | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff. | ′ |
|---|---|---|---|---|---|---|---|
| 0 | 157064 | 23 | 154855 | 24 | 2209 | 7 | 60 |
| 1 | 6927 | 23 | 4712 | 24 | 2216 | 6 | 59 |
| 2 | 6791 | 23 | 4569 | 24 | 2222 | 6 | 58 |
| 3 | 6654 | 23 | 4426 | 24 | 2228 | 6 | 57 |
| 4 | 156518 | 23 | 154284 | 24 | 2234 | 6 | 56 |
| 5 | 6382 | 23 | 4142 | 24 | 2240 | 7 | 55 |
| 6 | 6246 | 23 | 4000 | 24 | 2247 | 6 | 54 |
| 7 | 156111 | 23 | 153858 | 24 | 2253 | 6 | 53 |
| 8 | 5975 | 23 | 3716 | 24 | 2259 | 6 | 52 |
| 9 | 5840 | 23 | 3575 | 24 | 2265 | 7 | 51 |
| 10 | 155705 | 23 | 153434 | 24 | 2272 | 6 | 50 |
| 11 | 5570 | 22 | 3292 | 23 | 2278 | 6 | 49 |
| 12 | 5436 | 22 | 3152 | 23 | 2284 | 7 | 48 |
| 13 | 155301 | 22 | 153011 | 23 | 2291 | 6 | 47 |
| 14 | 5167 | 22 | 2870 | 23 | 2297 | 6 | 46 |
| 15 | 5033 | 22 | 2730 | 23 | 2303 | 6 | 45 |
| 16 | 154899 | 22 | 152590 | 23 | 2309 | 7 | 44 |
| 17 | 4765 | 22 | 2450 | 23 | 2316 | 6 | 43 |
| 18 | 4632 | 22 | 2310 | 23 | 2322 | 6 | 42 |
| 19 | 154499 | 22 | 152170 | 23 | 2328 | 7 | 41 |
| 20 | 4365 | 22 | 2031 | 23 | 2335 | 6 | 40 |
| 21 | 4233 | 22 | 1891 | 23 | 2341 | 7 | 39 |
| 22 | 154100 | 22 | 151752 | 23 | 2348 | 6 | 38 |
| 23 | 3967 | 22 | 1613 | 23 | 2354 | 6 | 37 |
| 24 | 3835 | 22 | 1474 | 23 | 2360 | 7 | 36 |
| 25 | 153703 | 22 | 151336 | 23 | 2367 | 6 | 35 |
| 26 | 3571 | 22 | 1197 | 23 | 2373 | 7 | 34 |
| 27 | 3439 | 22 | 1059 | 23 | 2380 | 6 | 33 |
| 28 | 153307 | 22 | 150921 | 23 | 2386 | 6 | 32 |
| 29 | 3176 | 22 | 0783 | 23 | 2392 | 7 | 31 |
| 30 | 3044 | | 0645 | | 2399 | | 30 |

| / | Logar. | Diff. 11 pro 10 | Mesolog | Diff. 1 pro 10 | Logar. | Diff | / |
|---|---|---|---|---|---|---|---|
| 30 | 153044 | 22 | 150645 | 23 | 2399 | 6 | 30 |
| 31 | 2913 | 22 | 0508 | 23 | 2405 | 7 | 29 |
| 32 | 2782 | 22 | 0370 | 23 | 2412 | 6 | 28 |
| 33 | 2651 | 22 | 0233 | 23 | 2418 | 7 | 27 |
| 34 | 152521 | | 150096 | | 2425 | 6 | 26 |
| 35 | 2390 | 22 | 149959 | 23 | 2431 | 7 | 25 |
| 36 | 2260 | 22 | 9822 | 23 | 2438 | 6 | 24 |
| 37 | 152130 | 22 | 149686 | 23 | 2444 | 7 | 23 |
| 38 | 2000 | 22 | 9550 | 23 | 2451 | 6 | 22 |
| 39 | 1871 | 22 | 9413 | 23 | 2457 | 7 | 21 |
| 40 | 151741 | 22 | 149277 | 23 | 2464 | 6 | 20 |
| 41 | 1612 | 22 | 9141 | 23 | 2470 | 7 | 19 |
| 42 | 1483 | 22 | 9006 | 23 | 2477 | 6 | 18 |
| 43 | 151354 | 22 | 148870 | 23 | 2483 | 7 | 17 |
| 44 | 1225 | 22 | 8735 | 23 | 1490 | 7 | 16 |
| 45 | 1096 | 21 | 8599 | 23 | 2497 | 6 | 15 |
| 46 | 150968 | 21 | 148464 | 22 | 2503 | 7 | 14 |
| 47 | 0839 | 21 | 8330 | 22 | 2510 | 6 | 13 |
| 48 | 0711 | 21 | 8195 | 22 | 2516 | 7 | 12 |
| 49 | 150583 | 21 | 148060 | 22 | 2523 | 7 | 11 |
| 50 | 0456 | 21 | 7926 | 22 | 2530 | 6 | 10 |
| 51 | 0328 | 21 | 7792 | 22 | 2536 | 7 | 9 |
| 52 | 150201 | 21 | 147658 | 22 | 2543 | 7 | 8 |
| 53 | 150073 | 21 | 7524 | 22 | 2550 | 6 | 7 |
| 54 | 149946 | 21 | 7390 | 22 | 2556 | 7 | 6 |
| 55 | 149819 | 21 | 147256 | 22 | 2563 | 7 | 5 |
| 56 | 9692 | 21 | 7123 | 22 | 2570 | 6 | 4 |
| 57 | 9566 | 21 | 6990 | 22 | 2576 | 7 | 3 |
| 58 | 149439 | 21 | 146856 | 22 | 2583 | 7 | 2 |
| 59 | 9313 | 21 | 6724 | 22 | 2590 | 6 | 1 |
| 60 | 9187 | 21 | 6591 | | 2596 | | 0 |

| / | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff. | / |
|---|---|---|---|---|---|---|---|
| 0 | 149187 | 21 | 146591 | 22 | 2596 | 7 | 60 |
| 1 | 9061 | 21 | 6458 | 22 | 2603 | 7 | 59 |
| 2 | 8935 | 21 | 6326 | 22 | 2610 | 7 | 58 |
| 3 | 8810 | 21 | 6193 | 22 | 2617 | 6 | 57 |
| 4 | 148684 | 21 | 146061 | 22 | 2623 | 7 | 56 |
| 5 | 8559 | 21 | 5929 | 22 | 2630 | 7 | 55 |
| 6 | 8434 | 21 | 5797 | 22 | 2637 | 7 | 54 |
| 7 | 148309 | 21 | 145666 | 22 | 2644 | 6 | 53 |
| 8 | 8184 | 21 | 5534 | 22 | 2650 | 7 | 52 |
| 9 | 8060 | 21 | 5403 | 22 | 2657 | 7 | 51 |
| 10 | 147935 | 21 | 145271 | 22 | 2664 | 7 | 50 |
| 11 | 7811 | 21 | 5140 | 22 | 2671 | 7 | 49 |
| 12 | 7687 | 21 | 5009 | 22 | 2678 | 6 | 48 |
| 13 | 147563 | 21 | 144879 | 22 | 2684 | 7 | 47 |
| 14 | 7439 | 21 | 4748 | 22 | 2691 | 7 | 46 |
| 15 | 7316 | 21 | 4618 | 22 | 2698 | 7 | 45 |
| 16 | 147192 | 21 | 144487 | 22 | 2705 | 7 | 44 |
| 17 | 7069 | 21 | 4357 | 22 | 2712 | 7 | 43 |
| 18 | 6946 | 21 | 4227 | 22 | 2719 | 7 | 42 |
| 19 | 146823 | 21 | 144097 | 22 | 2726 | 6 | 41 |
| 20 | 6700 | 21 | 3968 | 22 | 2732 | 7 | 40 |
| 21 | 6577 | 20 | 3838 | 22 | 2739 | 7 | 39 |
| 22 | 146455 | 20 | 143709 | 22 | 2746 | 7 | 38 |
| 23 | 6333 | 20 | 3579 | 22 | 2753 | 7 | 37 |
| 24 | 6210 | 20 | 3450 | 22 | 2760 | 7 | 36 |
| 25 | 146088 | 20 | 143321 | 22 | 2767 | 7 | 35 |
| 26 | 5967 | 20 | 3192 | 21 | 2774 | 7 | 34 |
| 27 | 5845 | 20 | 3064 | 21 | 2781 | 7 | 33 |
| 28 | 145723 | 20 | 142935 | 21 | 2788 | 7 | 32 |
| 29 | 5602 | 20 | 2807 | 21 | 2795 | 7 | 31 |
| 30 | 5481 | | 2679 | | 2802 | | 30 |

| / | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff. | / |
|---|---|---|---|---|---|---|---|
| 30 | 145481 | 20 | 142679 | 21 | 2802 | | 30 |
| 31 | 5360 | 20 | 2551 | 21 | 2809 | 7 | 29 |
| 32 | 5239 | 20 | 2423 | 21 | 2816 | 7 | 28 |
| 33 | 5118 | 20 | 2295 | 21 | 2823 | 7 | 27 |
| 34 | 144997 | 20 | 142167 | 21 | 2830 | 7 | 26 |
| 35 | 4877 | 20 | 2040 | 21 | 2837 | 7 | 25 |
| 36 | 4756 | 20 | 1912 | 21 | 2844 | 7 | 24 |
| 37 | 144636 | 20 | 141785 | 21 | 2851 | 7 | 23 |
| 38 | 4516 | 20 | 1658 | 21 | 2858 | 7 | 22 |
| 39 | 4396 | 20 | 1531 | 21 | 2865 | 7 | 21 |
| 40 | 144277 | 20 | 141405 | 21 | 2872 | 7 | 20 |
| 41 | 4157 | 20 | 1278 | 21 | 2879 | 7 | 19 |
| 42 | 4038 | 20 | 1151 | 21 | 2886 | 7 | 18 |
| 43 | 143918 | 20 | 141025 | 21 | 2893 | 7 | 17 |
| 44 | 3799 | 20 | 0899 | 21 | 2900 | 8 | 16 |
| 45 | 3680 | 20 | 0773 | 21 | 2908 | 7 | 15 |
| 46 | 143562 | 20 | 140647 | 21 | 2915 | 7 | 14 |
| 47 | 3443 | 20 | 0521 | 21 | 2922 | 7 | 13 |
| 48 | 3324 | 20 | 0395 | 21 | 2929 | 7 | 12 |
| 49 | 143206 | 20 | 140270 | 21 | 2936 | 7 | 11 |
| 50 | 3088 | 20 | 0145 | 21 | 2943 | 7 | 10 |
| 51 | 2970 | 20 | 140019 | 21 | 2950 | 8 | 9 |
| 52 | 142852 | 20 | 139894 | 21 | 2958 | 7 | 8 |
| 53 | 2734 | 20 | 9769 | 21 | 2965 | 7 | 7 |
| 54 | 2617 | 20 | 9645 | 21 | 2972 | 7 | 6 |
| 55 | 142499 | 20 | 139520 | 21 | 2979 | 7 | 5 |
| 56 | 2382 | 20 | 9395 | 21 | 2986 | 8 | 4 |
| 57 | 2265 | 20 | 9271 | 21 | 2994 | 7 | 3 |
| 58 | 142148 | 20 | 139147 | 21 | 3001 | 7 | 2 |
| 59 | 2031 | 20 | 9023 | 21 | 3008 | 7 | 1 |
| 60 | 1914 | | 8899 | | 3015 | | 0 |

| | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff. | |
|---|---|---|---|---|---|---|---|
| 1 | | | | | 3015 | 8 | 60 |
| 0 | 141914 | 20 | 138899 | 21 | 3023 | 7 | 59 |
| 1 | 1797 | 19 | 8775 | 21 | 3030 | 7 | 58 |
| 2 | 1681 | 19 | 8651 | 21 | 3037 | 7 | 57 |
| 3 | 1565 | 19 | 8527 | 21 | | | |
| 4 | 141448 | 19 | 138404 | 21 | 3044 | 8 | 56 |
| 5 | 1332 | 19 | 8281 | 21 | 3052 | 7 | 55 |
| 6 | 1217 | 19 | 8157 | 21 | 3059 | 7 | 54 |
| 7 | 141101 | 19 | 138034 | 21 | 3066 | 8 | 53 |
| 8 | 140985 | 19 | 7911 | 21 | 3074 | 7 | 52 |
| 9 | 0870 | 19 | 7788 | 20 | 3081 | 7 | 51 |
| 10 | 140754 | 19 | 137666 | 20 | 3088 | 8 | 50 |
| 11 | 0639 | 19 | 7543 | 20 | 3096 | 7 | 49 |
| 12 | 0524 | 19 | 7421 | 20 | 3103 | 7 | 48 |
| 13 | 140409 | 19 | 137299 | 20 | 3110 | 8 | 47 |
| 14 | 0295 | 19 | 7177 | 20 | 3118 | 7 | 46 |
| 15 | 0180 | 19 | 7055 | 20 | 3125 | 8 | 45 |
| 16 | 140066 | 19 | 136933 | 20 | 3133 | 7 | 44 |
| 17 | 139951 | 19 | 6811 | 20 | 3140 | 7 | 43 |
| 18 | 9837 | 19 | 6690 | 20 | 3147 | 8 | 42 |
| 19 | 139723 | 19 | 136568 | 20 | 3155 | 7 | 41 |
| 20 | 9609 | 19 | 6447 | 20 | 3162 | 8 | 40 |
| 21 | 9495 | 19 | 6326 | 20 | 3170 | 7 | 39 |
| 22 | 139382 | 19 | 136204 | 20 | 3177 | 8 | 38 |
| 23 | 9268 | 19 | 6084 | 28 | 3185 | 7 | 37 |
| 24 | 9155 | 19 | 5963 | 20 | 3192 | 8 | 36 |
| 25 | 139042 | 19 | 135842 | 20 | 3200 | 7 | 35 |
| 26 | 138928 | 19 | 5721 | 20 | 3207 | 7 | 34 |
| 27 | 8815 | 19 | 5601 | 20 | 3214 | 8 | 33 |
| 28 | 138703 | 19 | 135481 | 20 | 3222 | 8 | 32 |
| 29 | 8590 | 19 | 5360 | 20 | 3230 | 7 | 31 |
| 30 | 8477 | | 5240 | | 3237 | | 30 |

| ′ | Logar. | Diff. | Mesolog. | Diff. | Logar. | Diff. | ′ |
|---|---|---|---|---|---|---|---|
| | | pro 10 | | pro 10 | | | |
| 30 | 138477 | 19 | 135240 | 20 | 3237 | | 30 |
| 31 | 8365 | 19 | 5120 | 20 | 3245 | 8 | 29 |
| 32 | 8253 | 19 | 5001 | 20 | 3252 | 7 | 28 |
| 33 | 8141 | 19 | 4881 | 20 | 3260 | 8 | 27 |
| 34 | 138029 | 19 | 134761 | 20 | 3267 | 7 | 26 |
| 35 | 7917 | 19 | 4642 | 20 | 3275 | 8 | 25 |
| 36 | 7805 | 19 | 4523 | 20 | 3282 | 7 | 24 |
| 37 | 137693 | 19 | 134403 | 20 | 3290 | 8 | 23 |
| 38 | 7582 | 19 | 4284 | 20 | 3297 | 7 | 22 |
| 39 | 7471 | 19 | 4166 | 20 | 3305 | 8 | 21 |
| 40 | 137359 | 19 | 134047 | 20 | 3313 | 8 | 20 |
| 41 | 7248 | 19 | 3928 | 20 | 3320 | 7 | 19 |
| 42 | 7137 | 18 | 3809 | 20 | 3328 | 8 | 18 |
| 43 | 137027 | 18 | 133691 | 20 | 3336 | 8 | 17 |
| 44 | 6916 | 18 | 3573 | 20 | 3343 | 7 | 16 |
| 45 | 6805 | 18 | 3454 | 20 | 3351 | 8 | 15 |
| 46 | 136695 | 18 | 133336 | 20 | 3359 | 8 | 14 |
| 47 | 6585 | 18 | 3218 | 20 | 3366 | 7 | 13 |
| 48 | 6474 | 18 | 3100 | 20 | 3374 | 8 | 12 |
| 49 | 136364 | 18 | 132983 | 20 | 3382 | 8 | 11 |
| 50 | 6254 | 18 | 2865 | 20 | 3389 | 7 | 10 |
| 51 | 6145 | 18 | 2748 | 20 | 3397 | 8 | 9 |
| 52 | 136035 | 18 | 132630 | 20 | 3405 | 8 | 8 |
| 53 | 5926 | 18 | 2513 | 20 | 3412 | 7 | 7 |
| 54 | 5816 | 18 | 2396 | 20 | 3420 | 8 | 6 |
| 55 | 135707 | 18 | 132279 | 20 | 3428 | 8 | 5 |
| 56 | 5598 | 18 | 2162 | 20 | 3436 | 8 | 4 |
| 57 | 5489 | 18 | 2045 | 20 | 3443 | 7 | 3 |
| 58 | 135380 | 18 | 131929 | 20 | 3451 | 8 | 2 |
| 59 | 5271 | 18 | 1812 | 20 | 3459 | 8 | 1 |
| 60 | 5163 | | 1696 | | 3467 | | 0 |

| / | Logar. | Diff. pro 10 | Meſolog. | Diff. pro 10 | Log. | Diff | / |
|---|---|---|---|---|---|---|---|
| 0 | 135163 | 18 | 131696 | 20 | 3467 | 8 | 60 |
| 1 | 5054 | 18 | 1579 | 19 | 3475 | 7 | 59 |
| 2 | 4946 | 18 | 1463 | 19 | 3482 | 8 | 58 |
| 3 | 4837 | 18 | 1347 | 19 | 3490 | 8 | 57 |
| 4 | 134729 | 18 | 131231 | 19 | 3498 | 8 | 56 |
| 5 | 4621 | 18 | 1115 | 19 | 3506 | 8 | 55 |
| 6 | 4513 | 18 | 1000 | 19 | 3514 | 8 | 54 |
| 7 | 134406 | 18 | 130884 | 19 | 3522 | 7 | 53 |
| 8 | 4298 | 18 | 0769 | 19 | 3529 | 8 | 52 |
| 9 | 4191 | 18 | 0653 | 19 | 3537 | 8 | 51 |
| 10 | 134083 | 18 | 130538 | 19 | 3545 | 8 | 50 |
| 11 | 3975 | 18 | 0423 | 19 | 3553 | 8 | 49 |
| 12 | 3869 | 18 | 0308 | 19 | 3561 | 8 | 48 |
| 13 | 133762 | 18 | 130193 | 19 | 3569 | 8 | 47 |
| 14 | 3655 | 18 | 130078 | 19 | 3577 | 8 | 46 |
| 15 | 3548 | 18 | 129963 | 19 | 3585 | 8 | 45 |
| 16 | 133442 | 18 | 129849 | 19 | 3593 | 8 | 44 |
| 17 | 3335 | 18 | 9734 | 19 | 3601 | 8 | 43 |
| 18 | 3229 | 18 | 9620 | 19 | 3609 | 8 | 42 |
| 19 | 133122 | 18 | 129506 | 19 | 3617 | 7 | 41 |
| 20 | 3016 | 18 | 9392 | 19 | 3624 | 8 | 40 |
| 21 | 2910 | 18 | 9278 | 19 | 3632 | 8 | 39 |
| 22 | 132804 | 18 | 129164 | 19 | 3640 | 8 | 38 |
| 23 | 2698 | 18 | 9050 | 19 | 3648 | 8 | 37 |
| 24 | 2593 | 18 | 8936 | 19 | 3656 | 8 | 36 |
| 25 | 132487 | 18 | 128823 | 19 | 3664 | 8 | 35 |
| 26 | 2382 | 18 | 8709 | 19 | 3672 | 9 | 34 |
| 27 | 2277 | 18 | 8596 | 19 | 3681 | 8 | 33 |
| 28 | 132171 | 18 | 128483 | 19 | 3689 | 8 | 32 |
| 29 | 2066 | 18 | 8370 | 19 | 3697 | 8 | 31 |
| 30 | 1961 | 18 | 8257 | | 3705 | | 30 |

| ′ | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff. | ′ |
|---|---|---|---|---|---|---|---|
| 30 | 131961 | 18 | 128257 | 19 | 3705 | 8 | 30 |
| 31 | 4856 | 17 | 8144 | 19 | 3713 | 8 | 29 |
| 32 | 1752 | 17 | 8031 | 19 | 3721 | 8 | 28 |
| 33 | 1647 | 17 | 7918 | 19 | 3729 | 8 | 27 |
| 34 | 131543 | 17 | 127806 | 19 | 3737 | 8 | 26 |
| 35 | 1438 | 17 | 7693 | 19 | 3745 | 8 | 25 |
| 36 | 1334 | 17 | 7581 | 19 | 3753 | 8 | 24 |
| 37 | 131230 | 17 | 127469 | 19 | 3761 | 9 | 23 |
| 38 | 1126 | 17 | 7356 | 19 | 3770 | 8 | 22 |
| 39 | 1022 | 17 | 7244 | 19 | 3778 | 8 | 21 |
| 40 | 130918 | 17 | 127132 | 19 | 3786 | 8 | 20 |
| 41 | 0815 | 17 | 7021 | 19 | 3794 | 8 | 19 |
| 42 | 0711 | 17 | 6909 | 19 | 3802 | 8 | 18 |
| 43 | 130608 | 17 | 126797 | 19 | 3810 | 9 | 17 |
| 44 | 0504 | 17 | 6686 | 19 | 3819 | 8 | 16 |
| 45 | 0401 | 17 | 6574 | 19 | 3827 | 8 | 15 |
| 46 | 130298 | 17 | 126463 | 19 | 3835 | 8 | 14 |
| 47 | 0195 | 17 | 6352 | 19 | 3843 | 8 | 13 |
| 48 | 130092 | 17 | 6241 | 19 | 3851 | 9 | 12 |
| 49 | 129990 | 17 | 126130 | 19 | 3860 | 8 | 11 |
| 50 | 9887 | 17 | 6019 | 19 | 3868 | 8 | 10 |
| 51 | 9784 | 17 | 5908 | 18 | 3876 | 8 | 9 |
| 52 | 129682 | 17 | 125798 | 18 | 3884 | 9 | 8 |
| 53 | 9580 | 17 | 5687 | 18 | 3893 | 8 | 7 |
| 54 | 9478 | 17 | 5577 | 18 | 3901 | 8 | 6 |
| 55 | 129375 | 17 | 125466 | 18 | 3909 | 9 | 5 |
| 56 | 9273 | 17 | 5356 | 18 | 3918 | 8 | 4 |
| 57 | 9172 | 17 | 5246 | 18 | 3926 | 8 | 3 |
| 58 | 129070 | 17 | 125136 | 18 | 3934 | 8 | 2 |
| 59 | 8968 | 17 | 5026 | 18 | 3942 | 9 | 1 |
| 60 | 8867 | 17 | 4916 | 18 | 3951 | | 0 |

| / | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff. | / |
|---|---|---|---|---|---|---|---|
| 0 | 128867 | 17 | 124016 | 18 | 3951 | 8 | 60 |
| 1 | 8765 | 17 | 4806 | 18 | 3959 | 9 | 59 |
| 2 | 8664 | 17 | 4697 | 18 | 3968 | 8 | 58 |
| 3 | 8563 | 17 | 4587 | 18 | 3976 | 8 | 57 |
| 4 | 128462 | 17 | 124478 | 18 | 3984 | 9 | 56 |
| 5 | 8361 | 17 | 4368 | 18 | 3993 | 8 | 55 |
| 6 | 8260 | 17 | 4259 | 18 | 4001 | 8 | 54 |
| 7 | 128159 | 17 | 124150 | 18 | 4009 | 9 | 53 |
| 8 | 8059 | 17 | 4041 | 18 | 4018 | 8 | 52 |
| 9 | 7958 | 17 | 3932 | 18 | 4026 | 9 | 51 |
| 10 | 127858 | 17 | 123823 | 18 | 4035 | 8 | 50 |
| 11 | 7758 | 17 | 3715 | 18 | 4043 | 9 | 49 |
| 12 | 7657 | 17 | 3606 | 18 | 4052 | 8 | 48 |
| 13 | 127557 | 17 | 123497 | 18 | 4060 | 8 | 47 |
| 14 | 7457 | 17 | 3389 | 18 | 4068 | 9 | 46 |
| 15 | 7358 | 17 | 3281 | 18 | 4077 | 8 | 45 |
| 16 | 127258 | 17 | 123172 | 18 | 4085 | 9 | 44 |
| 17 | 7158 | 17 | 3064 | 18 | 4094 | 8 | 43 |
| 18 | 7059 | 17 | 2956 | 18 | 4102 | 9 | 42 |
| 19 | 126959 | 17 | 122848 | 18 | 4111 | 8 | 41 |
| 20 | 6860 | 17 | 2740 | 18 | 4119 | 9 | 40 |
| 21 | 6761 | 17 | 2633 | 18 | 4128 | 9 | 39 |
| 22 | 126662 | 17 | 122525 | 18 | 4137 | 8 | 38 |
| 23 | 6563 | 17 | 2418 | 18 | 4145 | 9 | 37 |
| 24 | 6464 | 17 | 2310 | 18 | 4154 | 8 | 36 |
| 25 | 126365 | 17 | 122203 | 18 | 4162 | 9 | 35 |
| 26 | 6266 | 16 | 2095 | 18 | 4171 | 8 | 34 |
| 27 | 6168 | 16 | 1988 | 18 | 4179 | 9 | 33 |
| 28 | 126069 | 16 | 121881 | 18 | 4188 | 9 | 32 |
| 29 | 5971 | 16 | 1774 | 18 | 4197 | 8 | 31 |
| 30 | 5873 | | 1667 | | 4205 | | 30 |

| / | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff. | / |
|---|---|---|---|---|---|---|---|
| 30 | 125873 | 16 | 121667 | 18 | 4205 | | 30 |
| 31 | 5774 | 16 | 1561 | 18 | 4214 | 9 | 29 |
| 32 | 5676 | 16 | 1454 | 18 | 4222 | 8 | 28 |
| 33 | 5578 | 16 | 1347 | 18 | 4231 | 9 | 27 |
| 34 | 125481 | 16 | 121241 | 18 | 4240 | 9 | 26 |
| 35 | 5383 | 16 | 1135 | 18 | 4248 | 8 | 25 |
| 36 | 5285 | 16 | 1028 | 18 | 4257 | 9 | 24 |
| 37 | 125188 | 16 | 120921 | 18 | 4266 | 9 | 23 |
| 38 | 5090 | 16 | 0816 | 18 | 4274 | 8 | 22 |
| 39 | 4993 | 16 | 0710 | 18 | 4283 | 9 | 21 |
| 40 | 124896 | 16 | 120604 | 18 | 4292 | 9 | 20 |
| 41 | 4799 | 16 | 0498 | 18 | 4301 | 9 | 19 |
| 42 | 4702 | 16 | 0392 | 18 | 4309 | 8 | 18 |
| 43 | 124605 | 16 | 120287 | 18 | 4318 | 9 | 17 |
| 44 | 4508 | 16 | 0181 | 18 | 4327 | 9 | 16 |
| 45 | 4411 | 16 | 120076 | 18 | 4335 | 8 | 15 |
| 46 | 124315 | 16 | 119970 | 18 | 4344 | 9 | 14 |
| 47 | 4218 | 16 | 9865 | 18 | 4353 | 9 | 13 |
| 48 | 4122 | 16 | 9760 | 18 | 4362 | 9 | 12 |
| 49 | 124025 | 16 | 119655 | 18 | 4371 | 8 | 11 |
| 50 | 3929 | 16 | 9550 | 18 | 4379 | 9 | 10 |
| 51 | 3833 | 16 | 9445 | 18 | 4388 | 9 | 9 |
| 52 | 123737 | 16 | 119340 | 18 | 4397 | 9 | 8 |
| 53 | 3641 | 16 | 9235 | 17 | 4406 | 9 | 7 |
| 54 | 3545 | 16 | 9131 | 17 | 4415 | 8 | 6 |
| 55 | 123450 | 16 | 119026 | 17 | 4423 | 9 | 5 |
| 56 | 3354 | 16 | 8922 | 17 | 4432 | 9 | 4 |
| 57 | 3259 | 16 | 8818 | 17 | 4441 | 9 | 3 |
| 58 | 123163 | 16 | 118713 | 17 | 4450 | 9 | 2 |
| 59 | 3068 | 16 | 8609 | 17 | 4459 | 9 | 1 |
| 60 | 2973 | | 8505 | | 4468 | | 0 |

| / | Logar. | Diff. pro 10 | Mesolog | Diff. pro 10 | Logar. | Diff | / |
|---|---|---|---|---|---|---|---|
| 0 | 122973 | 16 | 118505 | 17 | 4468 | 9 | 60 |
| 1 | 2778 | 16 | 8401 | 17 | 4477 | 9 | 59 |
| 2 | 2783 | 16 | 8297 | 17 | 4486 | 9 | 58 |
| 3 | 2688 | 16 | 8193 | 17 | 4495 | 8 | 57 |
| 4 | 122593 | 16 | 118090 | 17 | 4503 | 9 | 56 |
| 5 | 2498 | 16 | 7986 | 17 | 4512 | 9 | 55 |
| 6 | 2404 | 16 | 7882 | 17 | 4521 | 9 | 54 |
| 7 | 122309 | 16 | 117779 | 17 | 4530 | 9 | 53 |
| 8 | 2215 | 16 | 7676 | 17 | 4539 | 9 | 52 |
| 9 | 2121 | 16 | 7572 | 17 | 4548 | 9 | 51 |
| 10 | 122026 | 16 | 117469 | 17 | 4557 | 9 | 50 |
| 11 | 1932 | 16 | 7366 | 17 | 4566 | 9 | 49 |
| 12 | 1838 | 16 | 7263 | 17 | 4575 | 9 | 48 |
| 13 | 121744 | 16 | 117160 | 17 | 4584 | 9 | 47 |
| 14 | 1650 | 16 | 7057 | 17 | 4593 | 9 | 46 |
| 15 | 1557 | 16 | 6954 | 17 | 4602 | 9 | 45 |
| 16 | 121463 | 16 | 116852 | 17 | 4611 | 9 | 44 |
| 17 | 1370 | 16 | 6749 | 17 | 4620 | 9 | 43 |
| 18 | 1276 | 16 | 6647 | 17 | 4629 | 9 | 42 |
| 19 | 121183 | 16 | 116544 | 17 | 4638 | 10 | 41 |
| 20 | 1089 | 16 | 6442 | 17 | 4648 | 9 | 40 |
| 21 | 0996 | 16 | 6340 | 17 | 4657 | 9 | 39 |
| 22 | 120903 | 16 | 116238 | 17 | 4666 | 9 | 38 |
| 23 | 0810 | 16 | 6135 | 17 | 4675 | 9 | 37 |
| 24 | 0717 | 15 | 6033 | 17 | 4684 | 9 | 36 |
| 25 | 120625 | 15 | 115932 | 17 | 4693 | 9 | 35 |
| 26 | 0532 | 15 | 5830 | 17 | 4702 | 9 | 34 |
| 27 | 0439 | 15 | 5728 | 17 | 4711 | 9 | 33 |
| 28 | 120347 | 15 | 115626 | 17 | 4720 | 10 | 32 |
| 29 | 0255 | 15 | 5525 | 17 | 4730 | 9 | 31 |
| 30 | 0162 | 15 | 5423 | 17 | 4739 | 9 | 30 |

| ′ | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff. | ′ |
|---|---|---|---|---|---|---|---|
| 30 | 120162 | 15 | 115423 | 17 | 4739 | 9 | 30 |
| 31 | 120070 | 15 | 5322 | 17 | 4748 | 9 | 29 |
| 32 | 119978 | 15 | 5221 | 17 | 4757 | 9 | 28 |
| 33 | 9886 | 15 | 5119 | 17 | 4766 | 9 | 27 |
| 34 | 119794 | 15 | 115018 | 17 | 4775 | 10 | 26 |
| 35 | 9702 | 15 | 4917 | 17 | 4785 | 9 | 25 |
| 36 | 9610 | 15 | 4816 | 17 | 4794 | 9 | 24 |
| 37 | 119519 | 15 | 114715 | 17 | 4803 | 9 | 23 |
| 38 | 9427 | 15 | 4615 | 17 | 4812 | 10 | 22 |
| 39 | 9336 | 15 | 4514 | 17 | 4822 | 9 | 21 |
| 40 | 119244 | 15 | 114413 | 17 | 4831 | 9 | 20 |
| 41 | 9153 | 15 | 4313 | 17 | 4840 | 10 | 19 |
| 42 | 9062 | 15 | 4212 | 17 | 4850 | 9 | 18 |
| 43 | 118971 | 15 | 114112 | 17 | 4859 | 9 | 17 |
| 44 | 8880 | 15 | 4012 | 17 | 4868 | 9 | 16 |
| 45 | 8789 | 15 | 3911 | 17 | 4877 | 10 | 15 |
| 46 | 118698 | 15 | 113811 | 17 | 4887 | 9 | 14 |
| 47 | 8607 | 15 | 3711 | 17 | 4896 | 9 | 13 |
| 48 | 8517 | 15 | 3611 | 17 | 4905 | 10 | 12 |
| 49 | 118426 | 15 | 113511 | 17 | 4915 | 9 | 11 |
| 50 | 8336 | 15 | 3411 | 17 | 4924 | 9 | 10 |
| 51 | 8245 | 15 | 3312 | 17 | 4933 | 10 | 9 |
| 52 | 118155 | 15 | 113212 | 17 | 4943 | 9 | 8 |
| 53 | 8065 | 15 | 3112 | 17 | 4952 | 10 | 7 |
| 54 | 7975 | 15 | 3013 | 17 | 4962 | 9 | 6 |
| 55 | 117885 | 15 | 112914 | 17 | 4971 | 9 | 5 |
| 56 | 7795 | 15 | 2814 | 17 | 4980 | 10 | 4 |
| 57 | 7705 | 15 | 2715 | 17 | 4990 | 9 | 3 |
| 58 | 117615 | 15 | 112616 | 17 | 4999 | 10 | 2 |
| 59 | 7525 | 15 | 2517 | 17 | 5009 | 9 | 1 |
| 60 | 7436 | | 2418 | | 5018 | | 0 |

| / | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff | / |
|---|---|---|---|---|---|---|---|
| 0 | 117436 | 15 | 112418 | 17 | 5018 | 10 | 60 |
| 1 | 7346 | 15 | 2319 | 17 | 5028 | 9 | 59 |
| 2 | 7257 | 15 | 2220 | 17 | 5037 | 10 | 58 |
| 3 | 7168 | 15 | 2121 | 17 | 5047 | 9 | 57 |
| 4 | 117078 | 15 | 112022 | 16 | 5056 | 10 | 56 |
| 5 | 6989 | 15 | 1924 | 16 | 5066 | 9 | 55 |
| 6 | 6900 | 15 | 1825 | 16 | 5075 | 10 | 54 |
| 7 | 116811 | 15 | 111727 | 16 | 5085 | 9 | 53 |
| 8 | 6722 | 15 | 1628 | 16 | 5094 | 10 | 52 |
| 9 | 6634 | 15 | 1530 | 16 | 5104 | 9 | 51 |
| 10 | 116545 | 15 | 111432 | 16 | 5113 | 10 | 50 |
| 11 | 6456 | 15 | 1334 | 16 | 5123 | 9 | 49 |
| 12 | 6368 | 15 | 1236 | 16 | 5132 | 10 | 48 |
| 13 | 116279 | 15 | 111138 | 16 | 5142 | 9 | 47 |
| 14 | 6191 | 15 | 1040 | 16 | 5151 | 10 | 46 |
| 15 | 6103 | 15 | 0942 | 16 | 5161 | 10 | 45 |
| 16 | 116015 | 15 | 110844 | 16 | 5171 | 9 | 44 |
| 17 | 5927 | 15 | 0746 | 16 | 5180 | 10 | 43 |
| 18 | 5839 | 15 | 0649 | 16 | 5190 | 9 | 42 |
| 19 | 115751 | 15 | 110551 | 16 | 5199 | 10 | 41 |
| 20 | 5663 | 15 | 0454 | 16 | 5209 | 10 | 40 |
| 21 | 5575 | 15 | 0356 | 16 | 5219 | 9 | 39 |
| 22 | 115487 | 15 | 110259 | 16 | 5228 | 10 | 38 |
| 23 | 5400 | 15 | 0162 | 16 | 5238 | 10 | 37 |
| 24 | 5312 | 15 | 110065 | 16 | 5248 | 9 | 36 |
| 25 | 115225 | 15 | 109968 | 16 | 5257 | 10 | 35 |
| 26 | 5138 | 15 | 9871 | 16 | 5267 | 10 | 34 |
| 27 | 5050 | 15 | 9774 | 16 | 5277 | 9 | 33 |
| 28 | 114963 | 15 | 109677 | 16 | 5286 | 10 | 32 |
| 29 | 4876 | 15 | 9580 | 16 | 5296 | 10 | 31 |
| 30 | 4789 | 15 | 9483 | 16 | 5306 | 10 | 30 |

| ′ | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff. | ′ |
|---|---|---|---|---|---|---|---|
| 30 | 114789 | 14 | 109483 | 16 | 5306 | 10 | 30 |
| 31 | 4702 | 14 | 9387 | 16 | 5316 | 9 | 29 |
| 32 | 4616 | 14 | 9290 | 16 | 5325 | 10 | 28 |
| 33 | 4529 | 14 | 9194 | 16 | 5335 | 10 | 27 |
| 34 | 114442 | 14 | 109097 | 16 | 5345 | 10 | 26 |
| 35 | 4356 | 14 | 9001 | 16 | 5355 | 9 | 25 |
| 36 | 4269 | 14 | 8905 | 16 | 5364 | 10 | 24 |
| 37 | 114183 | 14 | 108808 | 16 | 5374 | 10 | 23 |
| 38 | 4096 | 14 | 8712 | 16 | 5384 | 10 | 22 |
| 39 | 4010 | 14 | 8616 | 16 | 5394 | 10 | 21 |
| 40 | 113924 | 14 | 108520 | 16 | 5404 | 10 | 20 |
| 41 | 3838 | 14 | 8424 | 16 | 5414 | 9 | 19 |
| 42 | 3752 | 14 | 8329 | 16 | 5423 | 10 | 18 |
| 43 | 113666 | 14 | 108233 | 16 | 5433 | 10 | 17 |
| 44 | 3580 | 14 | 8137 | 16 | 5443 | 10 | 16 |
| 45 | 3495 | 14 | 8042 | 16 | 5453 | 10 | 15 |
| 46 | 113409 | 14 | 107946 | 16 | 5463 | 10 | 14 |
| 47 | 3323 | 14 | 7851 | 16 | 5473 | 10 | 13 |
| 48 | 3238 | 14 | 7755 | 16 | 5483 | 10 | 12 |
| 49 | 113152 | 14 | 107660 | 16 | 5493 | 9 | 11 |
| 50 | 3067 | 14 | 7565 | 16 | 5502 | 10 | 10 |
| 51 | 2982 | 14 | 7469 | 16 | 5512 | 10 | 9 |
| 52 | 112897 | 14 | 107374 | 16 | 5522 | 10 | 8 |
| 53 | 2812 | 14 | 7279 | 16 | 5532 | 10 | 7 |
| 54 | 2727 | 14 | 7184 | 16 | 5542 | 10 | 6 |
| 55 | 112642 | 14 | 107089 | 16 | 5552 | 10 | 5 |
| 56 | 2557 | 14 | 6995 | 16 | 5562 | 10 | 4 |
| 57 | 2472 | 14 | 6900 | 16 | 5572 | 10 | 3 |
| 58 | 112387 | 14 | 106805 | 16 | 5582 | 10 | 2 |
| 59 | 2303 | 14 | 6711 | 16 | 5592 | 10 | 1 |
| 60 | 2218 | 14 | 6616 | 16 | 5602 | 10 | 0 |

| ′ | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff. | ′ |
|---|---|---|---|---|---|---|---|
| 0 | 112218 | 14 | 106616 | 16 | 5602 | 10 | 60 |
| 1 | 2134 | 14 | 6522 | 16 | 5612 | 10 | 59 |
| 2 | 2049 | 14 | 6427 | 16 | 5622 | 10 | 58 |
| 3 | 1965 | 14 | 6333 | 16 | 5632 | 10 | 57 |
| 4 | 111881 | 14 | 106239 | 16 | 5642 | 10 | 56 |
| 5 | 1797 | 14 | 6145 | 16 | 5652 | 10 | 55 |
| 6 | 1713 | 14 | 6050 | 16 | 5662 | 10 | 54 |
| 7 | 111629 | 14 | 105956 | 16 | 5672 | 11 | 53 |
| 8 | 1545 | 14 | 5862 | 16 | 5683 | 10 | 52 |
| 9 | 1461 | 14 | 5768 | 16 | 5693 | 10 | 51 |
| 10 | 111377 | 14 | 105675 | 16 | 5703 | 10 | 50 |
| 11 | 1294 | 14 | 5581 | 16 | 5713 | 10 | 49 |
| 12 | 1210 | 14 | 5487 | 16 | 5723 | 10 | 48 |
| 13 | 111127 | 14 | 105394 | 16 | 5733 | 10 | 47 |
| 14 | 1043 | 14 | 5300 | 16 | 5743 | 10 | 46 |
| 15 | 0960 | 14 | 5207 | 16 | 5753 | 11 | 45 |
| 16 | 110877 | 14 | 105113 | 16 | 5764 | 10 | 44 |
| 17 | 0794 | 14 | 5020 | 16 | 5774 | 10 | 43 |
| 18 | 0710 | 14 | 4926 | 16 | 5784 | 10 | 42 |
| 19 | 110627 | 14 | 104833 | 16 | 5794 | 10 | 41 |
| 20 | 0544 | 14 | 4740 | 16 | 5804 | 11 | 40 |
| 21 | 0462 | 14 | 4647 | 16 | 5815 | 10 | 39 |
| 22 | 110379 | 14 | 104554 | 16 | 5825 | 10 | 38 |
| 23 | 0296 | 14 | 4461 | 16 | 5835 | 10 | 37 |
| 24 | 0213 | 14 | 4368 | 16 | 5845 | 10 | 36 |
| 25 | 110131 | 14 | 104275 | 16 | 5855 | 11 | 35 |
| 26 | 110048 | 14 | 4183 | 16 | 5866 | 10 | 34 |
| 27 | 109966 | 14 | 4090 | 16 | 5876 | 10 | 33 |
| 28 | 109884 | 14 | 103997 | 15 | 5886 | 11 | 32 |
| 29 | 9801 | 14 | 3905 | 15 | 5897 | 10 | 31 |
| 30 | 9719 | 14 | 3812 | 15 | 5907 | 10 | 30 |

| l | Logar. | Diff. II pro 10 | Mesolog. | Diff. II pro 10 | Logar. | Diff | l |
|---|---|---|---|---|---|---|---|
| 30 | 109719 | 14 | 103812 | 15 | 5907 | 10 | 30 |
| 31 | 9637 | 14 | 3720 | 15 | 5917 | 10 | 29 |
| 32 | 9555 | 14 | 3628 | 15 | 5927 | 11 | 28 |
| 33 | 9473 | 14 | 3535 | 15 | 5938 | 10 | 27 |
| 34 | 109391 | 14 | 103443 | 15 | 5948 | 10 | 26 |
| 35 | 9309 | 14 | 3351 | 15 | 5958 | 11 | 25 |
| 36 | 9228 | 14 | 3259 | 15 | 5969 | 10 | 24 |
| 37 | 109146 | 14 | 103167 | 15 | 5979 | 11 | 23 |
| 38 | 9064 | 14 | 3075 | 15 | 5990 | 10 | 22 |
| 39 | 8983 | 14 | 2983 | 15 | 6000 | 10 | 21 |
| 40 | 108902 | 14 | 102891 | 15 | 6010 | 11 | 20 |
| 41 | 8820 | 14 | 2799 | 15 | 6021 | 10 | 19 |
| 42 | 8739 | 14 | 2708 | 15 | 6031 | 11 | 18 |
| 43 | 108658 | 14 | 102616 | 15 | 6042 | 10 | 17 |
| 44 | 8577 | 14 | 2525 | 15 | 6052 | 10 | 16 |
| 45 | 8496 | 14 | 2433 | 15 | 6062 | 11 | 15 |
| 46 | 108415 | 14 | 102342 | 15 | 6073 | 10 | 14 |
| 47 | 8334 | 14 | 2250 | 15 | 6083 | 11 | 13 |
| 48 | 8253 | 14 | 2159 | 15 | 6094 | 10 | 12 |
| 49 | 108172 | 14 | 102068 | 15 | 6104 | 11 | 11 |
| 50 | 8091 | 13 | 1976 | 15 | 6115 | 10 | 10 |
| 51 | 8011 | 13 | 1885 | 15 | 6125 | 11 | 9 |
| 52 | 107930 | 13 | 101794 | 15 | 6136 | 10 | 8 |
| 53 | 7850 | 13 | 1703 | 15 | 6146 | 11 | 7 |
| 54 | 7769 | 13 | 1612 | 15 | 6157 | 10 | 6 |
| 55 | 107689 | 13 | 101522 | 15 | 6167 | 11 | 5 |
| 56 | 7609 | 13 | 1431 | 15 | 6178 | 10 | 4 |
| 57 | 7529 | 13 | 1340 | 15 | 6188 | 11 | 3 |
| 58 | 107448 | 13 | 101249 | 15 | 6199 | 11 | 2 |
| 59 | 7368 | 13 | 1159 | 15 | 6210 | 10 | 1 |
| 60 | 7288 | 13 | 1068 | 15 | 6220 | 10 | 0 |

| ′ | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff. | ′ |
|---|---|---|---|---|---|---|---|
| 0 | 107288 | 13 | 101068 | 15 | 6220 | 11 | 60 |
| 1 | 7209 | 13 | 0978 | 15 | 6231 | 10 | 59 |
| 2 | 7129 | 13 | 0887 | 15 | 6241 | 11 | 58 |
| 3 | 7049 | 13 | 0797 | 15 | 6252 | 11 | 57 |
| 4 | 106969 | 13 | 100707 | 15 | 6263 | 10 | 56 |
| 5 | 6890 | 13 | 0616 | 15 | 6273 | 11 | 55 |
| 6 | 6810 | 13 | 0526 | 15 | 6284 | 11 | 54 |
| 7 | 106731 | 13 | 100436 | 15 | 6295 | 10 | 53 |
| 8 | 6651 | 13 | 0346 | 15 | 6305 | 11 | 52 |
| 9 | 6572 | 13 | 0256 | 15 | 6316 | 11 | 51 |
| 10 | 106493 | 13 | 100166 | 15 | 6327 | 10 | 50 |
| 11 | 6414 | 13 | 100076 | 15 | 6337 | 11 | 49 |
| 12 | 6335 | 13 | 99987 | 15 | 6348 | 11 | 48 |
| 13 | 106256 | 13 | 99897 | 15 | 6359 | 10 | 47 |
| 14 | 6177 | 13 | 9807 | 15 | 6369 | 11 | 46 |
| 15 | 6098 | 13 | 9718 | 15 | 6380 | 11 | 45 |
| 16 | 106019 | 13 | 99628 | 15 | 6391 | 11 | 44 |
| 17 | 5940 | 13 | 9539 | 15 | 6402 | 10 | 43 |
| 18 | 5862 | 13 | 9449 | 15 | 6412 | 11 | 42 |
| 19 | 105783 | 13 | 99360 | 15 | 6423 | 11 | 41 |
| 20 | 5704 | 13 | 9270 | 15 | 6434 | 11 | 40 |
| 21 | 5626 | 13 | 9181 | 15 | 6445 | 10 | 39 |
| 22 | 105548 | 13 | 99092 | 15 | 6455 | 11 | 38 |
| 23 | 5469 | 13 | 9003 | 15 | 6466 | 11 | 37 |
| 24 | 5391 | 13 | 8914 | 15 | 6477 | 11 | 36 |
| 25 | 105313 | 13 | 98825 | 15 | 6488 | 11 | 35 |
| 26 | 5235 | 13 | 8736 | 15 | 6499 | 11 | 34 |
| 27 | 5157 | 13 | 8647 | 15 | 6510 | 10 | 33 |
| 28 | 105079 | 13 | 98558 | 15 | 6520 | 11 | 32 |
| 29 | 5001 | 13 | 8469 | 15 | 6531 | 11 | 31 |
| 30 | 4923 | 13 | 8381 | 15 | 6542 | | 30 |



Digitized by Google

| / | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff | / |
|---|---|---|---|---|---|---|---|
| 30 | 104923 | 13 | 98381 | 15 | 6542 | 11 | 30 |
| 31 | 4845 | 13 | 8292 | 15 | 6553 | 11 | 29 |
| 32 | 4767 | 13 | 8203 | 15 | 6564 | 11 | 28 |
| 33 | 4690 | 13 | 8115 | 15 | 6575 | 11 | 27 |
| 34 | 104612 | 13 | 98026 | 15 | 6586 | 11 | 26 |
| 35 | 4535 | 13 | 7938 | 15 | 6597 | 11 | 25 |
| 36 | 4457 | 13 | 7850 | 15 | 6608 | 11 | 24 |
| 37 | 104380 | 13 | 97761 | 15 | 6619 | 10 | 23 |
| 38 | 4303 | 13 | 7673 | 15 | 6629 | 11 | 22 |
| 39 | 4225 | 13 | 7585 | 15 | 6640 | 11 | 21 |
| 40 | 104148 | 13 | 97497 | 15 | 6651 | 11 | 20 |
| 41 | 4071 | 13 | 7409 | 15 | 6662 | 11 | 19 |
| 42 | 3994 | 13 | 7321 | 15 | 6673 | 11 | 18 |
| 43 | 103917 | 13 | 97233 | 15 | 6684 | 11 | 17 |
| 44 | 3840 | 13 | 7145 | 15 | 6695 | 11 | 16 |
| 45 | 3764 | 13 | 7057 | 15 | 6706 | 11 | 15 |
| 46 | 103687 | 13 | 96969 | 15 | 6717 | 11 | 14 |
| 47 | 3610 | 13 | 6882 | 15 | 6728 | 11 | 13 |
| 48 | 3534 | 13 | 6794 | 15 | 6739 | 12 | 12 |
| 49 | 103457 | 13 | 96706 | 15 | 6751 | 11 | 11 |
| 50 | 3381 | 13 | 6619 | 15 | 6762 | 11 | 10 |
| 51 | 3304 | 13 | 6531 | 15 | 6773 | 11 | 9 |
| 52 | 103228 | 13 | 96444 | 15 | 6784 | 11 | 8 |
| 53 | 3151 | 13 | 6357 | 15 | 6795 | 11 | 7 |
| 54 | 3075 | 13 | 6269 | 15 | 6806 | 11 | 6 |
| 55 | 102999 | 13 | 96182 | 15 | 6817 | 11 | 5 |
| 56 | 2923 | 13 | 6095 | 15 | 6828 | 11 | 4 |
| 57 | 2847 | 13 | 6008 | 15 | 6839 | 11 | 3 |
| 58 | 102771 | 13 | 95921 | 15 | 6850 | 12 | 2 |
| 59 | 2695 | 13 | 5834 | 15 | 6862 | 11 | 1 |
| 60 | 2619 | 13 | 5747 | 15 | 6873 | 11 | 0 |

| ′ | Logar. | Diff. pro 10 | Mesolog | Diff. pro 10 | Logar. | Diff. | ′ |
|---|---|---|---|---|---|---|---|
| 0 | 102619 | 13 | 95747 | 15 | 6873 | 11 | 60 |
| 1 | 2544 | 13 | 5660 | 15 | 6884 | 11 | 59 |
| 2 | 2468 | 13 | 5573 | 15 | 6895 | 11 | 58 |
| 3 | 2392 | 13 | 5486 | 15 | 6906 | 12 | 57 |
| 4 | 102317 | 13 | 95339 | 14 | 6918 | 11 | 56 |
| 5 | 2241 | 13 | 5313 | 14 | 6929 | 11 | 55 |
| 6 | 2166 | 13 | 5226 | 14 | 6940 | 11 | 54 |
| 7 | 102091 | 13 | 95139 | 14 | 6951 | 11 | 53 |
| 8 | 2015 | 13 | 95053 | 14 | 6962 | 12 | 52 |
| 9 | 1940 | 13 | 94966 | 14 | 6974 | 11 | 51 |
| 10 | 101865 | 13 | 94880 | 14 | 6985 | 11 | 50 |
| 11 | 1790 | 13 | 4794 | 14 | 6996 | 11 | 49 |
| 12 | 1715 | 13 | 4707 | 14 | 7007 | 12 | 48 |
| 13 | 101640 | 13 | 94621 | 14 | 7019 | 11 | 47 |
| 14 | 1565 | 13 | 4535 | 14 | 7030 | 11 | 46 |
| 15 | 1490 | 13 | 4449 | 14 | 7041 | 12 | 45 |
| 16 | 101415 | 12 | 94363 | 14 | 7053 | 11 | 44 |
| 17 | 1341 | 12 | 4277 | 14 | 7064 | 11 | 43 |
| 18 | 1266 | 12 | 4191 | 14 | 7075 | 12 | 42 |
| 19 | 101191 | 12 | 94105 | 14 | 7087 | 11 | 41 |
| 20 | 1117 | 12 | 94019 | 14 | 7098 | 11 | 40 |
| 21 | 1042 | 12 | 93933 | 14 | 7109 | 12 | 39 |
| 22 | 100968 | 12 | 93847 | 14 | 7121 | 11 | 38 |
| 23 | 0894 | 12 | 3762 | 14 | 7132 | 12 | 37 |
| 24 | 0819 | 12 | 3676 | 14 | 7144 | 11 | 36 |
| 25 | 100745 | 12 | 93590 | 14 | 7155 | 11 | 35 |
| 26 | 0671 | 12 | 3505 | 14 | 7166 | 12 | 34 |
| 27 | 0597 | 12 | 3419 | 14 | 7178 | 11 | 33 |
| 28 | 100523 | 12 | 93334 | 14 | 7189 | 12 | 32 |
| 29 | 0449 | 12 | 3246 | 14 | 7201 | 11 | 31 |
| 30 | 0375 | 12 | 3163 | | 7212 | | 30 |



Digitized by Google

| / | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar | Diff | / |
|---|---|---|---|---|---|---|---|
| 30 | 100375 | 12 | 93163 | 14 | 7212 | 12 | 30 |
| 31 | 0301 | 12 | 3078 | 14 | 7224 | 11 | 29 |
| 32 | 0228 | 12 | 2993 | 14 | 7235 | 12 | 28 |
| 33 | 0154 | 12 | 2907 | 14 | 7247 | 11 | 27 |
| 34 | 100080 | 12 | 92822 | 14 | 7258 | 12 | 26 |
| 35 | 100007 | 12 | 2737 | 14 | 7270 | 11 | 25 |
| 36 | 99933 | 12 | 2652 | 14 | 7281 | 12 | 24 |
| 37 | 99860 | 12 | 92567 | 14 | 7293 | 11 | 23 |
| 38 | 9786 | 12 | 2482 | 14 | 7304 | 12 | 22 |
| 39 | 9713 | 12 | 2397 | 14 | 7316 | 11 | 21 |
| 40 | 99640 | 12 | 92313 | 14 | 7327 | 12 | 20 |
| 41 | 9567 | 12 | 2228 | 14 | 7339 | 11 | 19 |
| 42 | 9494 | 12 | 2143 | 14 | 7350 | 12 | 18 |
| 43 | 99421 | 12 | 92059 | 14 | 7362 | 11 | 17 |
| 44 | 9348 | 12 | 1974 | 14 | 7373 | 12 | 16 |
| 45 | 9275 | 12 | 1890 | 14 | 7385 | 12 | 15 |
| 46 | 99202 | 12 | 91805 | 14 | 7397 | 11 | 14 |
| 47 | 9129 | 12 | 1721 | 14 | 7408 | 12 | 13 |
| 48 | 99056 | 12 | 1636 | 14 | 7420 | 12 | 12 |
| 49 | 98983 | 12 | 91552 | 14 | 7432 | 11 | 11 |
| 50 | 8911 | 12 | 1468 | 14 | 7443 | 12 | 10 |
| 51 | 8838 | 12 | 1383 | 14 | 7455 | 12 | 9 |
| 52 | 98766 | 12 | 91299 | 14 | 7467 | 11 | 8 |
| 53 | 8693 | 12 | 1215 | 14 | 7478 | 12 | 7 |
| 54 | 8621 | 12 | 1131 | 14 | 7490 | 12 | 6 |
| 55 | 98549 | 12 | 91047 | 14 | 7502 | 11 | 5 |
| 56 | 8476 | 12 | 0963 | 14 | 7513 | 12 | 4 |
| 57 | 8404 | 12 | 0879 | 14 | 7525 | 12 | 3 |
| 58 | 98332 | 12 | 90795 | 14 | 7537 | 12 | 2 |
| 59 | 8260 | 12 | 0711 | 14 | 7549 | 11 | 1 |
| 60 | 8188 | 12 | 0628 | 14 | 7560 | 11 | 0 |

| / | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff | / |
|---|---|---|---|---|---|---|---|
| 0 | 98188 | 12 | 90628 | 14 | 7560 | 12 | 60 |
| 1 | 8116 | 12 | 0544 | 14 | 7572 | 12 | 59 |
| 2 | 8044 | 12 | 0460 | 14 | 7584 | 12 | 58 |
| 3 | 7972 | 12 | 0376 | 14 | 7596 | 11 | 57 |
| 4 | 97900 | 12 | 90293 | 14 | 7607 | 12 | 56 |
| 5 | 7829 | 12 | 0209 | 14 | 7619 | 12 | 55 |
| 6 | 7757 | 12 | 0126 | 14 | 7631 | 12 | 54 |
| 7 | 97685 | 12 | 90042 | 14 | 7643 | 12 | 53 |
| 8 | 7614 | 12 | 89959 | 14 | 7655 | 11 | 52 |
| 9 | 7542 | 12 | 9876 | 14 | 7666 | 12 | 51 |
| 10 | 97471 | 12 | 89793 | 14 | 7678 | 12 | 50 |
| 11 | 7399 | 12 | 9709 | 14 | 7690 | 12 | 49 |
| 12 | 7328 | 12 | 9626 | 14 | 7702 | 12 | 48 |
| 13 | 97257 | 12 | 89543 | 14 | 7714 | 12 | 47 |
| 14 | 7186 | 12 | 9460 | 14 | 7726 | 12 | 46 |
| 15 | 7115 | 12 | 9377 | 14 | 7738 | 12 | 45 |
| 16 | 97043 | 12 | 89294 | 14 | 7750 | 12 | 44 |
| 17 | 6973 | 12 | 9211 | 14 | 7762 | 11 | 43 |
| 18 | 6902 | 12 | 9128 | 14 | 7773 | 12 | 42 |
| 19 | 96831 | 12 | 89045 | 14 | 7785 | 12 | 41 |
| 20 | 6760 | 12 | 8963 | 14 | 7797 | 12 | 40 |
| 21 | 6689 | 12 | 8880 | 14 | 7809 | 12 | 39 |
| 22 | 96618 | 12 | 88797 | 14 | 7821 | 12 | 38 |
| 23 | 6548 | 12 | 8714 | 14 | 7833 | 12 | 37 |
| 24 | 6477 | 12 | 8632 | 14 | 7845 | 12 | 36 |
| 25 | 96406 | 12 | 88549 | 14 | 7857 | 12 | 35 |
| 26 | 6336 | 12 | 8467 | 14 | 7869 | 12 | 34 |
| 27 | 6266 | 12 | 8384 | 14 | 7881 | 12 | 33 |
| 28 | 96195 | 12 | 88302 | 14 | 7893 | 12 | 32 |
| 29 | 6125 | 12 | 8220 | 14 | 7905 | 12 | 31 |
| 30 | 6055 | 12 | 8137 | 14 | 7917 | 12 | 30 |

| / | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff. | / |
|---|---|---|---|---|---|---|---|
| 30 | 96055 | 12 | 88137 | 14 | 7917 | 12 | 30 |
| 31 | 5984 | 12 | 8055 | 14 | 7929 | 12 | 29 |
| 32 | 5914 | 12 | 7973 | 14 | 7941 | 13 | 28 |
| 33 | 5844 | 12 | 7891 | 14 | 7954 | 12 | 27 |
| 34 | 95774 | 12 | 87809 | 14 | 7966 | 12 | 26 |
| 35 | 5704 | 12 | 7726 | 14 | 7978 | 12 | 25 |
| 36 | 5634 | 12 | 7644 | 14 | 7990 | 12 | 24 |
| 37 | 95564 | 12 | 87563 | 14 | 8002 | 12 | 23 |
| 38 | 5495 | 12 | 7481 | 14 | 8014 | 12 | 22 |
| 39 | 5425 | 12 | 7399 | 14 | 8026 | 12 | 21 |
| 40 | 95355 | 12 | 87317 | 14 | 8038 | 12 | 20 |
| 41 | 5286 | 12 | 7235 | 14 | 8050 | 13 | 19 |
| 42 | 5216 | 12 | 7153 | 14 | 8063 | 12 | 18 |
| 43 | 95147 | 12 | 87072 | 14 | 8075 | 12 | 17 |
| 44 | 5077 | 12 | 6990 | 14 | 8087 | 12 | 16 |
| 45 | 5008 | 12 | 6909 | 14 | 8099 | 12 | 15 |
| 46 | 94938 | 12 | 86827 | 14 | 8111 | 13 | 14 |
| 47 | 4869 | 12 | 6745 | 14 | 8124 | 12 | 13 |
| 48 | 4800 | 12 | 6664 | 14 | 8136 | 12 | 12 |
| 49 | 94731 | 12 | 86583 | 14 | 8148 | 12 | 11 |
| 50 | 4662 | 12 | 6501 | 14 | 8160 | 13 | 10 |
| 51 | 4592 | 12 | 6420 | 14 | 8173 | 12 | 9 |
| 52 | 94523 | 12 | 86339 | 14 | 8185 | 12 | 8 |
| 53 | 4455 | 12 | 6257 | 14 | 8197 | 12 | 6 |
| 54 | 4386 | 12 | 6176 | 14 | 8209 | 13 | 7 |
| 55 | 94317 | 12 | 86095 | 14 | 8222 | 12 | 5 |
| 56 | 4248 | 12 | 6014 | 14 | 8234 | 12 | 4 |
| 57 | 4179 | 12 | 5933 | 14 | 8246 | 13 | 3 |
| 58 | 94111 | 12 | 85852 | 14 | 8259 | 12 | 2 |
| 59 | 4042 | 12 | 5771 | 14 | 8271 | 12 | 1 |
| 60 | 3973 | | 5690 | | 8283 | | 0 |

| / | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff. p. 10 | / |
|---|---|---|---|---|---|---|---|
| 0 | 93973 | 11 | 85690 | 14 | 8283 | 2 | 60 |
| 1 | 3905 | 11 | 5609 | 13 | 8296 | 2 | 59 |
| 2 | 3837 | 11 | 5529 | 13 | 8308 | 2 | 58 |
| 3 | 3768 | 11 | 5448 | 13 | 8320 | 2 | 57 |
| 4 | 93700 | 11 | 85367 | 13 | 8333 | 2 | 56 |
| 5 | 3632 | 11 | 5286 | 13 | 8345 | 2 | 55 |
| 6 | 3563 | 11 | 5206 | 13 | 8357 | 2 | 54 |
| 7 | 93495 | 11 | 85125 | 13 | 8370 | 2 | 53 |
| 8 | 3427 | 11 | 5045 | 13 | 8382 | 2 | 52 |
| 9 | 3359 | 11 | 4964 | 13 | 8395 | 2 | 51 |
| 10 | 93291 | 11 | 84884 | 13 | 8407 | 2 | 50 |
| 11 | 3223 | 11 | 4803 | 13 | 8420 | 2 | 49 |
| 12 | 3155 | 11 | 4723 | 13 | 8432 | 2 | 48 |
| 13 | 93087 | 11 | 84643 | 13 | 8445 | 2 | 47 |
| 14 | 3019 | 11 | 4562 | 13 | 8457 | 2 | 46 |
| 15 | 2952 | 11 | 4482 | 13 | 8470 | 2 | 45 |
| 16 | 92884 | 11 | 84402 | 13 | 8482 | 2 | 44 |
| 17 | 2816 | 11 | 4322 | 13 | 8495 | 2 | 43 |
| 18 | 2749 | 11 | 4242 | 13 | 8507 | 2 | 42 |
| 19 | 92681 | 11 | 84162 | 13 | 8520 | 2 | 41 |
| 20 | 2614 | 11 | 4082 | 13 | 8532 | 2 | 40 |
| 21 | 2546 | 11 | 4002 | 13 | 8545 | 2 | 39 |
| 22 | 92479 | 11 | 83922 | 13 | 8557 | 2 | 38 |
| 23 | 2412 | 11 | 3842 | 13 | 8570 | 2 | 37 |
| 24 | 2345 | 11 | 3762 | 13 | 8582 | 2 | 36 |
| 25 | 92277 | 11 | 83682 | 13 | 8595 | 2 | 35 |
| 26 | 2210 | 11 | 3603 | 13 | 8608 | 2 | 34 |
| 27 | 2143 | 11 | 3523 | 13 | 8620 | 2 | 33 |
| 28 | 92076 | 11 | 83443 | 13 | 8633 | 2 | 32 |
| 29 | 2009 | 11 | 3364 | 13 | 8646 | 2 | 31 |
| 30 | 1942 | | 3284 | | 8658 | | 30 |



Digitized by Google

| ′ | Logar. | Diff II pro 10 | Mesolog | Diff II pro 10 | Logar. | Diff p. 10 | ′ |
|---|---|---|---|---|---|---|---|
| 30 | 91942 | 11 | 83284 | 13 | 8658 | 2 | 30 |
| 31 | 1875 | 11 | 3204 | 13 | 8671 | 2 | 29 |
| 32 | 1809 | 11 | 3125 | 13 | 8684 | 2 | 28 |
| 33 | 1742 | 11 | 3046 | 13 | 8696 | 2 | 27 |
| 34 | 91675 | 11 | 82966 | 13 | 8709 | 2 | 26 |
| 35 | 1608 | 11 | 2887 | 13 | 8722 | 2 | 25 |
| 36 | 1542 | 11 | 2808 | 13 | 8734 | 2 | 24 |
| 37 | 91475 | 11 | 82728 | 13 | 8747 | 2 | 23 |
| 38 | 1409 | 11 | 2649 | 13 | 8760 | 2 | 22 |
| 39 | 1342 | 11 | 2570 | 13 | 8772 | 2 | 21 |
| 40 | 91276 | 11 | 82491 | 13 | 8785 | 2 | 20 |
| 41 | 1210 | 11 | 2412 | 13 | 8798 | 2 | 19 |
| 42 | 1143 | 11 | 2332 | 13 | 8811 | 2 | 18 |
| 43 | 91077 | 11 | 82254 | 13 | 8823 | 2 | 17 |
| 44 | 1011 | 11 | 2175 | 13 | 8836 | 2 | 16 |
| 45 | 0945 | 11 | 2096 | 13 | 8849 | 2 | 15 |
| 46 | 90879 | 11 | 82017 | 13 | 8862 | 2 | 14 |
| 47 | 0813 | 11 | 1938 | 13 | 8875 | 2 | 13 |
| 48 | 0747 | 11 | 1859 | 13 | 8887 | 2 | 12 |
| 49 | 90681 | 11 | 81780 | 13 | 8900 | 2 | 11 |
| 50 | 0615 | 11 | 1702 | 13 | 8913 | 2 | 10 |
| 51 | 0549 | 11 | 1623 | 13 | 8926 | 2 | 9 |
| 52 | 90483 | 11 | 81544 | 13 | 8939 | 2 | 8 |
| 53 | 0415 | 11 | 1466 | 13 | 8952 | 2 | 7 |
| 54 | 0352 | 11 | 1387 | 13 | 8965 | 2 | 6 |
| 55 | 90286 | 11 | 81309 | 13 | 8978 | 2 | 5 |
| 56 | 0221 | 11 | 1230 | 13 | 8990 | 2 | 4 |
| 57 | 0155 | 11 | 1152 | 13 | 9003 | 2 | 3 |
| 58 | 90090 | 11 | 81075 | 13 | 9016 | 2 | 2 |
| 59 | 90024 | 11 | 80995 | 13 | 9029 | 2 | 1 |
| 60 | 89959 | | 0917 | | 9042 | 2 | 0 |

| / | Logar. | Diff// pro 10 | Meſolog | Diff// pro 10 | Logar. | Diff// pro 10 | / |
|---|---|---|---|---|---|---|---|
| 0 | 89959 | 11 | 80917 | 13 | 9042 | 2 | 60 |
| 1 | 9894 | 11 | 0838 | 13 | 9055 | 2 | 59 |
| 2 | 9828 | 11 | 0760 | 13 | 9068 | 2 | 58 |
| 3 | 9763 | 11 | 0682 | 13 | 9081 | 2 | 57 |
| 4 | 89698 | 11 | 80604 | 13 | 9094 | 2 | 56 |
| 5 | 9633 | 11 | 0526 | 13 | 9107 | 2 | 55 |
| 6 | 9568 | 11 | 0448 | 13 | 9120 | 2 | 54 |
| 7 | 89503 | 11 | 80370 | 13 | 9133 | 2 | 53 |
| 8 | 9438 | 11 | 0292 | 13 | 9146 | 2 | 52 |
| 9 | 9373 | 11 | 0214 | 13 | 9159 | 2 | 51 |
| 10 | 89308 | 11 | 80136 | 13 | 9172 | 2 | 50 |
| 11 | 9243 | 11 | 80058 | 13 | 9185 | 2 | 49 |
| 12 | 9179 | 11 | 79980 | 13 | 9198 | 2 | 48 |
| 13 | 89114 | 11 | 79902 | 13 | 9211 | 2 | 47 |
| 14 | 9049 | 11 | 9825 | 13 | 9224 | 2 | 46 |
| 15 | 8985 | 11 | 9747 | 13 | 9238 | 2 | 45 |
| 16 | 88920 | 11 | 79669 | 13 | 9251 | 2 | 44 |
| 17 | 8856 | 11 | 9592 | 13 | 9264 | 2 | 43 |
| 18 | 8791 | 11 | 9514 | 13 | 9277 | 2 | 42 |
| 19 | 88727 | 11 | 79437 | 13 | 9290 | 2 | 41 |
| 20 | 8662 | 11 | 9359 | 13 | 9303 | 2 | 40 |
| 21 | 8598 | 11 | 9282 | 13 | 9316 | 2 | 39 |
| 22 | 88534 | 11 | 79204 | 13 | 9330 | 2 | 38 |
| 23 | 8470 | 11 | 9127 | 13 | 9343 | 2 | 37 |
| 24 | 8405 | 11 | 9049 | 13 | 9356 | 2 | 36 |
| 25 | 88341 | 11 | 78972 | 13 | 9369 | 2 | 35 |
| 26 | 8277 | 11 | 8895 | 13 | 9382 | 2 | 34 |
| 27 | 8213 | 11 | 8818 | 13 | 9396 | 2 | 33 |
| 28 | 88149 | 11 | 78740 | 13 | 9409 | 2 | 32 |
| 29 | 8085 | 11 | 8663 | 13 | 9422 | 2 | 31 |
| 30 | 80221 | | 8586 | | 9435 | 2 | 30 |

| / | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff. p. 10 | / |
|---|---|---|---|---|---|---|---|
| 30 | 88022 | 11 | 78586 | 13 | 9435 | 2 | 30 |
| 31 | 7958 | 11 | 8509 | 13 | 9449 | 2 | 29 |
| 32 | 7894 | 11 | 8432 | 13 | 9462 | 2 | 28 |
| 33 | 7830 | 11 | 8355 | 13 | 9475 | 2 | 27 |
| 34 | 87767 | 11 | 78278 | 13 | 9488 | 2 | 26 |
| 35 | 7703 | 11 | 8201 | 13 | 9502 | 2 | 25 |
| 36 | 7640 | 11 | 8124 | 13 | 9515 | 2 | 24 |
| 37 | 87576 | 11 | 78048 | 13 | 9528 | 2 | 23 |
| 38 | 7512 | 11 | 7971 | 13 | 9542 | 2 | 22 |
| 39 | 7449 | 11 | 7894 | 13 | 9555 | 2 | 21 |
| 40 | 87386 | 11 | 77817 | 13 | 9568 | 2 | 20 |
| 41 | 7322 | 11 | 7741 | 13 | 9582 | 2 | 19 |
| 42 | 7259 | 11 | 7664 | 13 | 9595 | 2 | 18 |
| 43 | 87196 | 11 | 77587 | 13 | 9608 | 2 | 17 |
| 44 | 7133 | 11 | 7511 | 13 | 9622 | 2 | 16 |
| 45 | 7070 | 11 | 7434 | 13 | 9635 | 2 | 15 |
| 46 | 87007 | 11 | 77358 | 13 | 9649 | 2 | 14 |
| 47 | 6943 | 10 | 7281 | 13 | 9662 | 2 | 13 |
| 48 | 6881 | 10 | 7204 | 13 | 9676 | 2 | 12 |
| 49 | 86818 | 10 | 77129 | 13 | 9689 | 2 | 11 |
| 50 | 6755 | 10 | 7052 | 13 | 9702 | 2 | 10 |
| 51 | 6692 | 10 | 6976 | 13 | 9716 | 2 | 9 |
| 52 | 86629 | 10 | 76900 | 13 | 9729 | 2 | 8 |
| 53 | 9566 | 10 | 6823 | 13 | 9743 | 2 | 7 |
| 54 | 6504 | 10 | 6747 | 13 | 9756 | 2 | 6 |
| 55 | 86441 | 10 | 76671 | 13 | 9770 | 2 | 5 |
| 56 | 6378 | 10 | 6595 | 13 | 9783 | 2 | 4 |
| 57 | 6316 | 10 | 6519 | 13 | 9797 | 2 | 3 |
| 58 | 86253 | 10 | 76443 | 13 | 9810 | 2 | 2 |
| 59 | 6191 | 10 | 6367 | 13 | 9824 | 2 | 1 |
| 60 | 6129 | 10 | 6291 | 13 | 9838 | 2 | 0 |

| / | Logar. | Diff. I pro 10 | Meſolog | Diff. II pro 10 | Logar. | Diff. I p. 10 | / |
|---|---|---|---|---|---|---|---|
| 0 | 86129 | 10 | 76291 | 13 | 9838 | 2 | 60 |
| 1 | 6066 | 10 | 6215 | 13 | 9851 | 2 | 59 |
| 2 | 6004 | 10 | 6139 | 13 | 9865 | 2 | 58 |
| 3 | 5942 | 10 | 6063 | 13 | 9878 | 2 | 57 |
| 4 | 85879 | 10 | 75987 | 13 | 9892 | 2 | 56 |
| 5 | 5817 | 10 | 5912 | 13 | 9906 | 2 | 55 |
| 6 | 5755 | 10 | 5836 | 13 | 9919 | 2 | 54 |
| 7 | 85693 | 10 | 75760 | 13 | 9933 | 2 | 53 |
| 8 | 5631 | 10 | 5685 | 13 | 9946 | 2 | 52 |
| 9 | 5569 | 10 | 5609 | 13 | 9960 | 2 | 51 |
| 10 | 85507 | 10 | 75533 | 13 | 9974 | 2 | 50 |
| 11 | 5445 | 10 | 5458 | 13 | 9987 | 2 | 49 |
| 12 | 5383 | 10 | 5382 | 13 | 10001 | 2 | 48 |
| 13 | 85322 | 10 | 75307 | 13 | 10015 | 2 | 47 |
| 14 | 5260 | 10 | 5231 | 13 | 0029 | 2 | 46 |
| 15 | 5198 | 10 | 5156 | 13 | 0042 | 2 | 45 |
| 16 | 85136 | 10 | 75080 | 13 | 10056 | 2 | 44 |
| 17 | 5075 | 10 | 5005 | 13 | 0070 | 2 | 43 |
| 18 | 5013 | 10 | 4930 | 13 | 0083 | 2 | 42 |
| 19 | 84952 | 10 | 74855 | 13 | 10097 | 2 | 41 |
| 20 | 4890 | 10 | 4779 | 13 | 0111 | 2 | 40 |
| 21 | 4829 | 10 | 4704 | 13 | 0125 | 2 | 39 |
| 22 | 84767 | 10 | 74629 | 13 | 10138 | 2 | 38 |
| 23 | 4706 | 10 | 4554 | 13 | 0152 | 2 | 37 |
| 24 | 4645 | 10 | 4479 | 13 | 0166 | 2 | 36 |
| 25 | 84584 | 10 | 74404 | 13 | 10180 | 2 | 35 |
| 26 | 4522 | 10 | 4329 | 13 | 0194 | 2 | 34 |
| 27 | 4461 | 10 | 4254 | 13 | 0208 | 2 | 33 |
| 28 | 84400 | 10 | 74179 | 13 | 10221 | 2 | 32 |
| 29 | 4339 | 10 | 4104 | 13 | 0235 | 2 | 31 |
| 30 | 4278 | | 4029 | | 0249 | 2 | 30 |

| / | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff. p. 10 | / |
|---|---|---|---|---|---|---|---|
| 30 | 84278 | 10 | 74029 | 13 | 10249 | 2 | 30 |
| 31 | 4217 | 10 | 3954 | 13 | 0263 | 2 | 29 |
| 32 | 4156 | 10 | 3879 | 13 | 0277 | 2 | 28 |
| 33 | 4095 | 10 | 3804 | 12 | 0291 | 2 | 27 |
| 34 | 84035 | 10 | 73730 | 12 | 10305 | 2 | 26 |
| 35 | 3974 | 10 | 3655 | 12 | 0319 | 2 | 25 |
| 36 | 3913 | 10 | 3580 | 12 | 0333 | 2 | 24 |
| 37 | 83852 | 10 | 73506 | 12 | 10347 | 2 | 23 |
| 38 | 3792 | 10 | 3431 | 12 | 0360 | 2 | 22 |
| 39 | 3731 | 10 | 3357 | 12 | 0374 | 2 | 21 |
| 40 | 83671 | 10 | 73282 | 12 | 10388 | 2 | 20 |
| 41 | 3610 | 10 | 3208 | 12 | 0402 | 2 | 19 |
| 42 | 3550 | 10 | 3133 | 12 | 0416 | 2 | 18 |
| 43 | 83489 | 10 | 73059 | 12 | 10430 | 2 | 17 |
| 44 | 3429 | 10 | 2984 | 12 | 0444 | 2 | 16 |
| 45 | 3368 | 10 | 2910 | 12 | 0458 | 2 | 15 |
| 46 | 83308 | 10 | 72836 | 12 | 10473 | 2 | 14 |
| 47 | 3248 | 10 | 2761 | 12 | 0487 | 2 | 13 |
| 48 | 3188 | 10 | 2687 | 12 | 0501 | 2 | 12 |
| 49 | 83128 | 10 | 72613 | 12 | 10515 | 2 | 11 |
| 50 | 3067 | 10 | 2539 | 12 | 0529 | 2 | 10 |
| 51 | 3007 | 10 | 2465 | 12 | 0543 | 2 | 9 |
| 52 | 82947 | 10 | 72390 | 12 | 10557 | 2 | 8 |
| 53 | 2887 | 10 | 2316 | 12 | 0571 | 2 | 7 |
| 54 | 2827 | 10 | 2242 | 12 | 0585 | 2 | 6 |
| 55 | 82768 | 10 | 72168 | 12 | 10599 | 2 | 5 |
| 56 | 2708 | 10 | 2094 | 12 | 0613 | 2 | 4 |
| 57 | 2648 | 10 | 2020 | 12 | 0628 | 2 | 3 |
| 58 | 82588 | 10 | 71946 | 12 | 10642 | 2 | 2 |
| 59 | 2529 | 10 | 1873 | 12 | 0656 | 2 | 1 |
| 60 | 2469 | | 1799 | | 0670 | | 0 |

| ′ | Logar. | Diff. pro 10 | Mesolog | Diff. pro 10 | Logar. | Diff. pro 10 | ′ |
|---|---|---|---|---|---|---|---|
| 0 | 82469 | 10 | 71799 | 12 | 10670 | 2 | 60 |
| 1 | 2409 | 10 | 1725 | 12 | 0684 | 2 | 59 |
| 2 | 2350 | 10 | 1651 | 12 | 0699 | 2 | 58 |
| 3 | 2290 | 10 | 1577 | 12 | 0713 | 2 | 57 |
| 4 | 82231 | 10 | 71504 | 12 | 10727 | 2 | 56 |
| 5 | 2171 | 10 | 1430 | 12 | 0741 | 2 | 55 |
| 6 | 2112 | 10 | 1356 | 12 | 0755 | 2 | 54 |
| 7 | 82052 | 10 | 71283 | 12 | 10770 | 2 | 53 |
| 8 | 1993 | 10 | 1209 | 12 | 0784 | 2 | 52 |
| 9 | 1934 | 10 | 1136 | 12 | 0798 | 2 | 51 |
| 10 | 81875 | 10 | 71062 | 12 | 10812 | 2 | 50 |
| 11 | 1815 | 10 | 0989 | 12 | 0827 | 2 | 49 |
| 12 | 1756 | 10 | 0915 | 12 | 0841 | 2 | 48 |
| 13 | 81697 | 10 | 70842 | 12 | 10855 | 2 | 47 |
| 14 | 1638 | 10 | 0768 | 12 | 0870 | 2 | 46 |
| 15 | 1579 | 10 | 0695 | 12 | 0884 | 2 | 45 |
| 16 | 81520 | 10 | 70622 | 12 | 10898 | 2 | 44 |
| 17 | 1461 | 10 | 0548 | 12 | 0913 | 2 | 43 |
| 18 | 1402 | 10 | 0475 | 12 | 0927 | 2 | 42 |
| 19 | 81344 | 10 | 70402 | 12 | 10942 | 2 | 41 |
| 20 | 1285 | 10 | 0329 | 12 | 0956 | 2 | 40 |
| 21 | 1226 | 10 | 0256 | 12 | 0970 | 2 | 39 |
| 22 | 81167 | 10 | 70183 | 12 | 10985 | 2 | 38 |
| 23 | 1109 | 10 | 0110 | 12 | 0999 | 2 | 37 |
| 24 | 1050 | 10 | 70036 | 12 | 1014 | 2 | 36 |
| 25 | 80991 | 10 | 69963 | 12 | 11028 | 2 | 35 |
| 26 | 0933 | 10 | 9890 | 11 | 1042 | 2 | 34 |
| 27 | 0874 | 10 | 9817 | 12 | 1057 | 2 | 33 |
| 28 | 80816 | 10 | 69745 | 12 | 11071 | 2 | 32 |
| 29 | 0758 | 10 | 9627 | 12 | 1086 | 2 | 31 |
| 30 | 0699 | | 9599 | | 1100 | | 30 |



Digitized by Google

| / | Logar. | Diff. pro 10 | Mesolog | Diff. pro 10 | Logar. | Diff. p. 10 | / |
|---|---|---|---|---|---|---|---|
| 30 | 80699 | 10 | 69599 | 12 | 11100 | 2 | 30 |
| 31 | 0641 | 10 | 9526 | 12 | 1115 | 2 | 29 |
| 32 | 0583 | 10 | 9453 | 12 | 1129 | 2 | 28 |
| 33 | 0524 | 10 | 9380 | 12 | 1144 | 2 | 27 |
| 34 | 80466 | 10 | 69308 | 12 | 11159 | 2 | 26 |
| 35 | 0408 | 10 | 9235 | 12 | 1173 | 2 | 25 |
| 36 | 0350 | 10 | 9162 | 12 | 1188 | 2 | 24 |
| 37 | 80292 | 10 | 69090 | 12 | 11202 | 2 | 23 |
| 38 | 0234 | 10 | 9017 | 12 | 1217 | 2 | 22 |
| 39 | 0176 | 10 | 8944 | 12 | 1231 | 2 | 21 |
| 40 | 80118 | 10 | 68872 | 12 | 11246 | 2 | 20 |
| 41 | 0060 | 10 | 8799 | 12 | 1261 | 2 | 19 |
| 42 | 80002 | 10 | 8727 | 12 | 1275 | 2 | 18 |
| 43 | 79944 | 10 | 68654 | 12 | 11290 | 2 | 17 |
| 44 | 9887 | 10 | 8582 | 12 | 1305 | 2 | 16 |
| 45 | 9829 | 10 | 8510 | 12 | 1319 | 2 | 15 |
| 46 | 79771 | 10 | 68437 | 12 | 11334 | 2 | 14 |
| 47 | 9713 | 10 | 8365 | 12 | 1349 | 2 | 13 |
| 48 | 9656 | 10 | 8293 | 12 | 1363 | 2 | 12 |
| 49 | 79598 | 10 | 68220 | 12 | 11378 | 2 | 11 |
| 50 | 9541 | 10 | 8148 | 12 | 1393 | 2 | 10 |
| 51 | 9483 | 10 | 8076 | 12 | 1407 | 2 | 9 |
| 52 | 79426 | 10 | 68004 | 12 | 11422 | 2 | 8 |
| 53 | 9368 | 10 | 7932 | 12 | 1437 | 2 | 7 |
| 54 | 9311 | 10 | 7859 | 12 | 1452 | 2 | 6 |
| 55 | 79254 | 10 | 67787 | 12 | 11466 | 2 | 5 |
| 56 | 9197 | 10 | 7715 | 12 | 1481 | 2 | 4 |
| 57 | 9139 | 10 | 7643 | 12 | 1496 | 2 | 3 |
| 58 | 79082 | 10 | 67571 | 12 | 11511 | 2 | 2 |
| 59 | 9025 | 10 | 7500 | 12 | 1525 | 2 | 1 |
| 60 | 8968 | | 7428 | | 1540 | | 0 |

| ′ | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff. p. 10 | ′ |
|---|---|---|---|---|---|---|---|
| 0 | 78968 | 10 | 67428 | 12 | 11540 | 2 | 60 |
| 1 | 8911 | 10 | 7356 | 12 | 1555 | 2 | 59 |
| 2 | 8854 | 10 | 7284 | 12 | 1570 | 2 | 58 |
| 3 | 8797 | 10 | 7212 | 12 | 1585 | 2 | 57 |
| 4 | 78740 | 10 | 67140 | 12 | 11600 | 2 | 56 |
| 5 | 8683 | 10 | 7068 | 12 | 1615 | 2 | 55 |
| 6 | 8626 | 10 | 6997 | 12 | 1629 | 2 | 54 |
| 7 | 78569 | 10 | 66925 | 12 | 11644 | 2 | 53 |
| 8 | 8512 | 9 | 6853 | 12 | 1659 | 2 | 52 |
| 9 | 8456 | 9 | 6782 | 12 | 1674 | 2 | 51 |
| 10 | 78399 | 9 | 66710 | 12 | 11689 | 2 | 50 |
| 11 | 8342 | 9 | 6638 | 12 | 1704 | 2 | 49 |
| 12 | 8286 | 9 | 6567 | 12 | 1719 | 2 | 48 |
| 13 | 78229 | 9 | 66495 | 12 | 11734 | 2 | 47 |
| 14 | 8173 | 9 | 6424 | 12 | 1749 | 2 | 46 |
| 15 | 8116 | 9 | 6352 | 12 | 1764 | 2 | 45 |
| 16 | 78060 | 9 | 66281 | 12 | 11779 | 2 | 44 |
| 17 | 8003 | 9 | 6209 | 12 | 1794 | 2 | 43 |
| 18 | 7947 | 9 | 6138 | 12 | 1809 | 2 | 42 |
| 19 | 77890 | 9 | 66067 | 12 | 11824 | 2 | 41 |
| 20 | 7834 | 9 | 5995 | 12 | 1839 | 2 | 40 |
| 21 | 7778 | 9 | 5924 | 12 | 1854 | 2 | 39 |
| 22 | 77722 | 9 | 65853 | 12 | 11869 | 2 | 38 |
| 23 | 7666 | 9 | 5782 | 12 | 1884 | 2 | 37 |
| 24 | 7609 | 9 | 5710 | 12 | 1899 | 2 | 36 |
| 25 | 77553 | 9 | 65639 | 12 | 11914 | 2 | 35 |
| 26 | 7497 | 9 | 5568 | 12 | 1929 | 2 | 34 |
| 27 | 7441 | 9 | 5497 | 12 | 1944 | 2 | 33 |
| 28 | 77385 | 9 | 65426 | 12 | 11959 | 3 | 32 |
| 29 | 7329 | 9 | 5355 | 12 | 1975 | 3 | 31 |
| 30 | 7273 | | 5284 | | 1990 | | 30 |

| / | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff. p. 10 | / |
|---|---|---|---|---|---|---|---|
| 30 | 77273 | 9 | 65284 | 12 | 11990 | 3 | 30 |
| 31 | 7218 | 9 | 5213 | 12 | 2005 | 3 | 29 |
| 32 | 7162 | 9 | 5142 | 12 | 2020 | 3 | 28 |
| 33 | 7106 | 9 | 5071 | 12 | 2035 | 3 | 27 |
| 34 | 77050 | 9 | 65000 | 12 | 12050 | 3 | 26 |
| 35 | 6994 | 9 | 4929 | 12 | 2066 | 3 | 25 |
| 36 | 6939 | 9 | 4859 | 12 | 2081 | 3 | 24 |
| 37 | 76883 | 9 | 64787 | 12 | 12096 | 3 | 23 |
| 38 | 6828 | 9 | 4716 | 12 | 2111 | 3 | 22 |
| 39 | 6772 | 9 | 4646 | 12 | 2126 | 3 | 21 |
| 40 | 76717 | 9 | 64575 | 12 | 12142 | 3 | 20 |
| 41 | 6661 | 9 | 4504 | 12 | 2157 | 3 | 19 |
| 42 | 6606 | 9 | 4434 | 12 | 2172 | 3 | 18 |
| 43 | 76550 | 9 | 64363 | 12 | 12188 | 3 | 17 |
| 44 | 6495 | 9 | 4292 | 12 | 2203 | 3 | 16 |
| 45 | 6440 | 9 | 4222 | 12 | 2218 | 3 | 15 |
| 46 | 76384 | 9 | 64151 | 12 | 12233 | 3 | 14 |
| 47 | 6329 | 9 | 4080 | 12 | 2249 | 3 | 13 |
| 48 | 6274 | 9 | 4010 | 12 | 2264 | 3 | 12 |
| 49 | 76219 | 9 | 63939 | 12 | 12279 | 3 | 11 |
| 50 | 6164 | 9 | 3869 | 12 | 2295 | 3 | 10 |
| 51 | 6109 | 9 | 3799 | 12 | 2310 | 3 | 9 |
| 52 | 76054 | 9 | 63728 | 12 | 12325 | 3 | 8 |
| 53 | 5999 | 9 | 3658 | 12 | 2341 | 3 | 7 |
| 54 | 5944 | 9 | 3587 | 12 | 2356 | 3 | 6 |
| 55 | 75889 | 9 | 63517 | 12 | 12372 | 3 | 5 |
| 56 | 5834 | 9 | 3447 | 12 | 2387 | 3 | 4 |
| 57 | 5779 | 9 | 3376 | 12 | 2403 | 3 | 3 |
| 58 | 75724 | 9 | 63306 | 12 | 12418 | 3 | 2 |
| 59 | 5669 | 9 | 3236 | 12 | 2433 | 3 | 1 |
| 60 | 5615 | 9 | 3166 | 12 | 2449 | 3 | 0 |

| / | Logar. | Diff. pro 10 | Mesolog | Diff. pro 10 | Logar. | Diff. pro 10 | / |
|---|---|---|---|---|---|---|---|
| 0 | 75615 | 9 | 63166 | 12 | 12449 | 3 | 60 |
| 1 | 5560 | 9 | 3096 | 12 | 2464 | 3 | 59 |
| 2 | 5505 | 9 | 3025 | 12 | 2480 | 3 | 58 |
| 3 | 5451 | 9 | 2955 | 12 | 2495 | 3 | 57 |
| 4 | 75396 | 9 | 62885 | 12 | 12511 | 3 | 56 |
| 5 | 5342 | 9 | 2815 | 12 | 2526 | 3 | 55 |
| 6 | 5287 | 9 | 2745 | 12 | 2542 | 3 | 54 |
| 7 | 75233 | 9 | 62675 | 12 | 12557 | 3 | 53 |
| 8 | 5178 | 9 | 2605 | 12 | 2573 | 3 | 52 |
| 9 | 5124 | 9 | 2535 | 12 | 2589 | 3 | 51 |
| 10 | 75069 | 9 | 62465 | 12 | 12604 | 3 | 50 |
| 11 | 5015 | 9 | 2395 | 12 | 2620 | 3 | 49 |
| 12 | 4961 | 9 | 2326 | 12 | 2635 | 3 | 48 |
| 13 | 74907 | 9 | 62256 | 12 | 12651 | 3 | 47 |
| 14 | 4853 | 9 | 2186 | 12 | 2666 | 3 | 46 |
| 15 | 4798 | 9 | 2116 | 12 | 2682 | 3 | 45 |
| 16 | 74744 | 9 | 62046 | 12 | 12698 | 3 | 44 |
| 17 | 4690 | 9 | 1977 | 12 | 2713 | 3 | 43 |
| 18 | 4636 | 9 | 1907 | 12 | 2729 | 3 | 42 |
| 19 | 74582 | 9 | 61837 | 12 | 12745 | 3 | 41 |
| 20 | 4528 | 9 | 1768 | 12 | 2760 | 3 | 40 |
| 21 | 4474 | 9 | 1698 | 12 | 2776 | 3 | 39 |
| 22 | 74420 | 9 | 61628 | 12 | 12792 | 3 | 38 |
| 23 | 4366 | 9 | 1559 | 12 | 2808 | 3 | 37 |
| 24 | 4313 | 9 | 1489 | 12 | 2823 | 3 | 36 |
| 25 | 74259 | 9 | 61420 | 12 | 12839 | 3 | 35 |
| 26 | 4205 | 9 | 1350 | 12 | 2855 | 3 | 34 |
| 27 | 4151 | 9 | 1281 | 12 | 2870 | 3 | 33 |
| 28 | 74098 | 9 | 61212 | 12 | 12886 | 3 | 32 |
| 29 | 4044 | 9 | 1142 | 12 | 2902 | 3 | 31 |
| 30 | 3991 | | 1073 | | 2918 | | 30 |

| ′ | Logar. | Diff. pro 10 | Mesolog | Diff. pro 10 | Logar. | Diff. pro 10 | ′ |
|---|---|---|---|---|---|---|---|
| 30 | 73991 | 9 | 61073 | 12 | 12918 | 3 | 30 |
| 31 | 3937 | 9 | 1003 | 12 | 2934 | 3 | 29 |
| 32 | 3883 | 9 | 0934 | 12 | 2949 | 3 | 28 |
| 33 | 3830 | 9 | 0865 | 12 | 2965 | 3 | 27 |
| 34 | 73777 | | 60796 | | 12981 | | 26 |
| 35 | 3723 | 9 | 0726 | 12 | 2997 | 3 | 25 |
| 36 | 3670 | 9 | 0657 | 12 | 3013 | 3 | 24 |
| 37 | 73616 | | 60588 | | 13029 | | 23 |
| 38 | 3563 | 9 | 0519 | 12 | 3044 | 3 | 22 |
| 39 | 3510 | 9 | 0449 | 12 | 3060 | 3 | 21 |
| 40 | 73457 | | 60380 | | 13076 | | 20 |
| 41 | 3403 | 9 | 0311 | 12 | 3092 | 3 | 19 |
| 42 | 3350 | 9 | 0242 | 12 | 3108 | 3 | 18 |
| 43 | 73297 | | 60173 | | 13124 | | 17 |
| 44 | 3244 | 9 | 0104 | 12 | 3140 | 3 | 16 |
| 45 | 3191 | 9 | 60035 | 12 | 3156 | 3 | 15 |
| 46 | 73138 | | 59966 | | 13172 | | 14 |
| 47 | 3085 | 9 | 9897 | 12 | 3188 | 3 | 13 |
| 48 | 3032 | 9 | 9828 | 12 | 3204 | 3 | 12 |
| 49 | 72979 | | 59759 | | 13220 | | 11 |
| 50 | 2926 | 9 | 9690 | 12 | 3236 | 3 | 10 |
| 51 | 2874 | 9 | 9622 | 11 | 3252 | 3 | 9 |
| 52 | 72821 | | 59553 | | 13268 | | 8 |
| 53 | 2768 | 9 | 9484 | 11 | 3284 | 3 | 7 |
| 54 | 2715 | 9 | 9415 | 11 | 3300 | 3 | 6 |
| 55 | 72663 | | 59347 | | 13316 | | 5 |
| 56 | 2610 | 9 | 9278 | 11 | 3332 | 3 | 4 |
| 57 | 2557 | 9 | 9209 | 11 | 3348 | 3 | 3 |
| 58 | 72505 | | 59141 | | 13364 | | 2 |
| 59 | 2452 | 9 | 9072 | 11 | 3380 | 3 | 1 |
| 60 | 2400 | 9 | 9003 | | 3397 | | 0 |

| / | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff. pro 10 | / |
|---|---|---|---|---|---|---|---|
| 0 | 72400 | 9 | 59003 | 11 | 13397 | 3 | 60 |
| 1 | 2347 | 9 | 8935 | 11 | 3413 | 3 | 59 |
| 2 | 2295 | 9 | 8866 | 11 | 3429 | 3 | 58 |
| 3 | 2243 | 9 | 8798 | 11 | 3445 | 3 | 57 |
| 4 | 72190 | 9 | 58729 | 11 | 13461 | 3 | 56 |
| 5 | 2138 | 9 | 8661 | 11 | 3477 | 3 | 55 |
| 6 | 2086 | 9 | 8592 | 11 | 3493 | 3 | 54 |
| 7 | 72033 | 9 | 58524 | 11 | 13510 | 3 | 53 |
| 8 | 1981 | 9 | 8455 | 11 | 3526 | 3 | 52 |
| 9 | 1929 | 9 | 8387 | 11 | 3542 | 3 | 51 |
| 10 | 71877 | 9 | 58319 | 11 | 13558 | 3 | 50 |
| 11 | 1825 | 9 | 8250 | 11 | 3575 | 3 | 49 |
| 12 | 1773 | 9 | 8182 | 11 | 3591 | 3 | 48 |
| 13 | 71721 | 9 | 58114 | 11 | 13607 | 3 | 47 |
| 14 | 1669 | 9 | 8045 | 11 | 3623 | 3 | 46 |
| 15 | 1617 | 9 | 7977 | 11 | 3640 | 3 | 45 |
| 16 | 71565 | 9 | 57909 | 11 | 13656 | 3 | 44 |
| 17 | 1513 | 9 | 7841 | 11 | 3672 | 3 | 43 |
| 18 | 1461 | 9 | 7772 | 11 | 3689 | 3 | 42 |
| 19 | 71409 | 9 | 57704 | 11 | 13705 | 3 | 41 |
| 20 | 1357 | 9 | 7636 | 11 | 3721 | 3 | 40 |
| 21 | 1306 | 9 | 7568 | 11 | 3738 | 3 | 39 |
| 22 | 71254 | 9 | 57500 | 11 | 13754 | 3 | 38 |
| 23 | 1202 | 9 | 7432 | 11 | 3770 | 3 | 37 |
| 24 | 1151 | 9 | 7364 | 11 | 3787 | 3 | 36 |
| 25 | 71099 | 9 | 57296 | 11 | 13803 | 3 | 35 |
| 26 | 1047 | 9 | 7228 | 11 | 3820 | 3 | 34 |
| 27 | 0996 | 9 | 7160 | 11 | 3836 | 3 | 33 |
| 28 | 70944 | 9 | 57092 | 11 | 13852 | 3 | 32 |
| 29 | 0893 | 9 | 7024 | 11 | 3869 | 3 | 31 |
| 30 | 0842 | | 6956 | | 3885 | | 30 |

Grad. 60

| ′ | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff. pro 10 | ′ |
|---|---|---|---|---|---|---|---|
| 30 | 70842 | 9 | 56956 | 11 | 13885 | 3 | 30 |
| 31 | 0790 | 9 | 6888 | 11 | 3902 | 3 | 29 |
| 32 | 0739 | 9 | 6821 | 11 | 3918 | 3 | 28 |
| 33 | 0687 | 9 | 6753 | 11 | 3935 | 3 | 27 |
| 34 | 70636 | | 56685 | 11 | 13951 | | 26 |
| 35 | 0585 | 9 | 6617 | 11 | 3968 | 3 | 25 |
| 36 | 0534 | 9 | 6549 | 11 | 3984 | 3 | 24 |
| 37 | 70482 | 9 | 56482 | 11 | 14001 | 3 | 23 |
| 38 | 0431 | 9 | 6414 | 11 | 4017 | 3 | 22 |
| 39 | 0380 | 9 | 6346 | 11 | 4034 | 3 | 21 |
| 40 | 70329 | 9 | 56279 | 11 | 14050 | 3 | 20 |
| 41 | 0278 | 9 | 6211 | 11 | 4067 | 3 | 19 |
| 42 | 0227 | 9 | 6143 | 11 | 4084 | 3 | 18 |
| 43 | 70176 | 9 | 56076 | 11 | 14100 | 3 | 17 |
| 44 | 0125 | 9 | 6008 | 11 | 4117 | 3 | 16 |
| 45 | 0074 | 9 | 55941 | 11 | 4133 | 3 | 15 |
| 46 | 70023 | 8 | 55873 | 11 | 14150 | 3 | 14 |
| 47 | 69973 | 8 | 5806 | 11 | 4167 | 3 | 13 |
| 48 | 9922 | 8 | 5738 | 11 | 4183 | 3 | 12 |
| 49 | 69871 | 8 | 55671 | 11 | 14200 | 3 | 11 |
| 50 | 9820 | 8 | 5603 | 11 | 4217 | 3 | 10 |
| 51 | 9769 | 8 | 5536 | 11 | 4233 | 3 | 9 |
| 52 | 69719 | 8 | 55469 | 11 | 14250 | 3 | 8 |
| 53 | 9668 | 8 | 5401 | 11 | 4267 | 3 | 7 |
| 54 | 9618 | 8 | 5334 | 11 | 4283 | 3 | 6 |
| 55 | 69567 | 8 | 55267 | 11 | 14300 | 3 | 5 |
| 56 | 9516 | 8 | 5199 | 11 | 4317 | 3 | 4 |
| 57 | 9466 | 8 | 5132 | 11 | 4334 | 3 | 3 |
| 58 | 69415 | 8 | 55065 | 11 | 14350 | 3 | 2 |
| 59 | 9365 | 8 | 4998 | 11 | 4367 | 3 | 1 |
| 60 | 9315 | | 4931 | | 4384 | | 0 |

| / | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff. pro 10 | / |
|---|---|---|---|---|---|---|---|
| 0 | 72400 | 9 | 59003 | 11 | 13397 | 3 | 60 |
| 1 | 2347 | 9 | 8935 | 11 | 3413 | 3 | 59 |
| 2 | 2295 | 9 | 8866 | 11 | 3429 | 3 | 58 |
| 3 | 2243 | 9 | 8798 | 11 | 3445 | 3 | 57 |
| 4 | 72190 | 9 | 58729 | 11 | 13461 | 3 | 56 |
| 5 | 2138 | 9 | 8661 | 11 | 3477 | 3 | 55 |
| 6 | 2086 | 9 | 8592 | 11 | 3493 | 3 | 54 |
| 7 | 72033 | 9 | 58524 | 11 | 13510 | 3 | 53 |
| 8 | 1981 | 9 | 8455 | 11 | 3526 | 3 | 52 |
| 9 | 1929 | 9 | 8387 | 11 | 3542 | 3 | 51 |
| 10 | 71877 | 9 | 58319 | 11 | 13558 | 3 | 50 |
| 11 | 1825 | 9 | 8250 | 11 | 3575 | 3 | 49 |
| 12 | 1773 | 9 | 8182 | 11 | 3591 | 3 | 48 |
| 13 | 71721 | 9 | 58114 | 11 | 13607 | 3 | 47 |
| 14 | 1669 | 9 | 8045 | 11 | 3623 | 3 | 46 |
| 15 | 1617 | 9 | 7977 | 11 | 3640 | 3 | 45 |
| 16 | 71565 | 9 | 57909 | 11 | 13656 | 3 | 44 |
| 17 | 1513 | 9 | 7841 | 11 | 3672 | 3 | 43 |
| 18 | 1461 | 9 | 7772 | 11 | 3689 | 3 | 42 |
| 19 | 71409 | 9 | 57704 | 11 | 13705 | 3 | 41 |
| 20 | 1357 | 9 | 7636 | 11 | 3721 | 3 | 40 |
| 21 | 1306 | 9 | 7568 | 11 | 3738 | 3 | 39 |
| 22 | 71254 | 9 | 57500 | 11 | 13754 | 3 | 38 |
| 23 | 1202 | 9 | 7432 | 11 | 3770 | 3 | 37 |
| 24 | 1151 | 9 | 7364 | 11 | 3787 | 3 | 36 |
| 25 | 71099 | 9 | 57296 | 11 | 13803 | 3 | 35 |
| 26 | 1047 | 9 | 7228 | 11 | 3820 | 3 | 34 |
| 27 | 6996 | 9 | 7160 | 11 | 3836 | 3 | 33 |
| 28 | 70944 | 9 | 57092 | 11 | 13852 | 3 | 32 |
| 29 | 0893 | 9 | 7024 | 11 | 3869 | 3 | 31 |
| 30 | 0842 | | 6956 | | 3885 | | 30 |

| / | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff. pro 10 | / |
|---|---|---|---|---|---|---|---|
| 30 | 70842 | 9 | 56956 | 11 | 13885 | 3 | 30 |
| 31 | 0790 | 9 | 6888 | 11 | 3902 | 3 | 29 |
| 32 | 0739 | 9 | 6821 | 11 | 3918 | 3 | 28 |
| 33 | 0687 | 9 | 6753 | 11 | 3935 | 3 | 27 |
| 34 | 70636 | 9 | 56685 | 11 | 13951 | 3 | 26 |
| 35 | 0585 | 9 | 6617 | 11 | 3968 | 3 | 25 |
| 36 | 0534 | 9 | 6549 | 11 | 3984 | 3 | 24 |
| 37 | 70482 | 9 | 56482 | 11 | 14001 | 3 | 23 |
| 38 | 0431 | 9 | 6414 | 11 | 4017 | 3 | 22 |
| 39 | 0380 | 9 | 6346 | 11 | 4034 | 3 | 21 |
| 40 | 70329 | 9 | 56279 | 11 | 14050 | 3 | 20 |
| 41 | 0278 | 9 | 6211 | 11 | 4067 | 3 | 19 |
| 42 | 0227 | 9 | 6143 | 11 | 4084 | 3 | 18 |
| 43 | 70176 | 9 | 56076 | 11 | 14100 | 3 | 17 |
| 44 | 0125 | 9 | 6008 | 11 | 4117 | 3 | 16 |
| 45 | 0074 | 9 | 55941 | 11 | 4133 | 3 | 15 |
| 46 | 70023 | 8 | 55873 | 11 | 14150 | 3 | 14 |
| 47 | 69973 | 8 | 5806 | 11 | 4167 | 3 | 13 |
| 48 | 9922 | 8 | 5738 | 11 | 4183 | 3 | 12 |
| 49 | 69871 | 8 | 55671 | 11 | 14200 | 3 | 11 |
| 50 | 9820 | 8 | 5603 | 11 | 4217 | 3 | 10 |
| 51 | 9769 | 8 | 5536 | 11 | 4233 | 3 | 9 |
| 52 | 69719 | 8 | 55469 | 11 | 14250 | 3 | 8 |
| 53 | 9668 | 8 | 5401 | 11 | 4267 | 3 | 7 |
| 54 | 9618 | 8 | 5334 | 11 | 4283 | 3 | 6 |
| 55 | 69567 | 8 | 55267 | 11 | 14300 | 3 | 5 |
| 56 | 9516 | 8 | 5199 | 11 | 4317 | 3 | 4 |
| 57 | 9466 | 8 | 5132 | 11 | 4334 | 3 | 3 |
| 58 | 69415 | 8 | 55065 | 11 | 14350 | 3 | 2 |
| 59 | 9365 | 8 | 4998 | 11 | 4367 | 3 | 1 |
| 60 | 9315 | | 4931 | | 4384 | 3 | 0 |

| ′ | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff. pro 10 | ′ |
|---|---|---|---|---|---|---|---|
| 0 | 69315 | 8 | 54931 | 11 | 14384 | 3 | 60 |
| 1 | 9246 | 8 | 4863 | 11 | 4401 | 3 | 59 |
| 2 | 9214 | 8 | 4796 | 11 | 4418 | 3 | 58 |
| 3 | 9164 | 8 | 4730 | 11 | 4434 | 3 | 57 |
| 4 | 69113 | 8 | 54662 | 11 | 14451 | 3 | 56 |
| 5 | 9063 | 8 | 4595 | 11 | 4468 | 3 | 55 |
| 6 | 9013 | 8 | 4528 | 11 | 4485 | 3 | 54 |
| 7 | 68963 | 8 | 54461 | 11 | 14502 | 3 | 53 |
| 8 | 8913 | 8 | 4394 | 11 | 4519 | 3 | 52 |
| 9 | 8863 | 8 | 4327 | 11 | 4536 | 3 | 51 |
| 10 | 68812 | 8 | 54260 | 11 | 14553 | 3 | 50 |
| 11 | 8762 | 8 | 4193 | 11 | 4569 | 3 | 49 |
| 12 | 8712 | 8 | 4126 | 11 | 4586 | 3 | 48 |
| 13 | 68663 | 8 | 54059 | 11 | 14603 | 3 | 47 |
| 14 | 8613 | 8 | 3992 | 11 | 4620 | 3 | 46 |
| 15 | 8563 | 8 | 3925 | 11 | 4637 | 3 | 45 |
| 16 | 68513 | 8 | 53859 | 11 | 14654 | 3 | 44 |
| 17 | 8463 | 8 | 3792 | 11 | 4671 | 3 | 43 |
| 18 | 8413 | 8 | 3725 | 11 | 4688 | 3 | 42 |
| 19 | 68363 | 8 | 53658 | 11 | 14705 | 3 | 41 |
| 20 | 8314 | 8 | 3592 | 11 | 4722 | 3 | 40 |
| 21 | 8264 | 8 | 3525 | 11 | 4739 | 3 | 39 |
| 22 | 68214 | 8 | 53458 | 11 | 14756 | 3 | 38 |
| 23 | 8165 | 8 | 3391 | 11 | 4773 | 3 | 37 |
| 24 | 8115 | 8 | 3325 | 11 | 4790 | 3 | 36 |
| 25 | 68066 | 8 | 53258 | 11 | 14807 | 3 | 35 |
| 26 | 8016 | 8 | 3191 | 11 | 4825 | 3 | 34 |
| 27 | 7967 | 8 | 3125 | 11 | 4842 | 3 | 33 |
| 28 | 67917 | 8 | 53058 | 11 | 14859 | 3 | 32 |
| 29 | 7868 | 8 | 2992 | 11 | 4876 | 3 | 31 |
| 30 | 7818 | | 2925 | | 4893 | | 30 |

| / | Logar. | Diff. I pro 10 | Mesolog. | Diff. II pro 10 | Logar. | Diff. III p. 10 | / |
|---|---|---|---|---|---|---|---|
| 30 | 67818 | 8 | 52925 | 11 | 14893 | 3 | 30 |
| 31 | 7769 | 8 | 2859 | 11 | 4910 | 3 | 29 |
| 32 | 7720 | 8 | 2792 | 11 | 4927 | 3 | 28 |
| 33 | 7670 | 8 | 2726 | 11 | 4944 | 3 | 27 |
| 34 | 67621 | 8 | 52659 | 11 | 14962 | 3 | 26 |
| 35 | 7572 | 8 | 2593 | 11 | 4979 | 3 | 25 |
| 36 | 7523 | 8 | 2527 | 11 | 4996 | 3 | 24 |
| 37 | 67473 | 8 | 52460 | 11 | 15013 | 3 | 23 |
| 38 | 7424 | 8 | 2394 | 11 | 5030 | 3 | 22 |
| 39 | 7375 | 8 | 2327 | 11 | 5048 | 3 | 21 |
| 40 | 67326 | 8 | 52261 | 11 | 15065 | 3 | 20 |
| 41 | 7277 | 8 | 2195 | 11 | 5082 | 3 | 19 |
| 42 | 7228 | 8 | 2129 | 11 | 5099 | 3 | 18 |
| 43 | 67179 | 8 | 52062 | 11 | 15117 | 3 | 17 |
| 44 | 7130 | 8 | 1996 | 11 | 5134 | 3 | 16 |
| 45 | 7081 | 8 | 1930 | 11 | 5151 | 3 | 15 |
| 46 | 67032 | 8 | 51864 | 11 | 15169 | 3 | 14 |
| 47 | 6983 | 8 | 1797 | 11 | 5186 | 3 | 13 |
| 48 | 6935 | 8 | 1731 | 11 | 5203 | 3 | 12 |
| 49 | 66886 | 8 | 51665 | 11 | 15221 | 3 | 11 |
| 50 | 6837 | 8 | 1599 | 11 | 5238 | 3 | 10 |
| 51 | 6788 | 8 | 1533 | 11 | 5255 | 3 | 9 |
| 52 | 66740 | 8 | 51467 | 11 | 15273 | 3 | 8 |
| 53 | 6691 | 8 | 1401 | 11 | 5290 | 3 | 7 |
| 54 | 6642 | 8 | 1335 | 11 | 5307 | 3 | 6 |
| 55 | 66594 | 8 | 51269 | 11 | 15325 | 3 | 5 |
| 56 | 6545 | 8 | 1203 | 11 | 5342 | 3 | 4 |
| 57 | 6497 | 8 | 1137 | 11 | 5360 | 3 | 3 |
| 58 | 66448 | 8 | 51071 | 11 | 15377 | 3 | 2 |
| 59 | 6400 | 8 | 1005 | 11 | 5395 | 3 | 1 |
| 60 | 6351 | | 0939 | | 5412 | 3 | 0 |

| ′ | Logar. | Diff. pro 10 | Mesolog | Diff. pro 10 | Logar. | Diff. p. 10 | ′ |
|---|---|---|---|---|---|---|---|
| 0 | 66351 | 8 | 50939 | 11 | 15412 | 3 | 60 |
| 1 | 6303 | 8 | 0873 | 11 | 5430 | 3 | 59 |
| 2 | 6255 | 8 | 0807 | 11 | 5447 | 3 | 58 |
| 3 | 6206 | 8 | 0742 | 11 | 5465 | 3 | 57 |
| 4 | 66158 | 8 | 50676 | 11 | 15482 | 3 | 56 |
| 5 | 6110 | 8 | 0610 | 11 | 5500 | 3 | 55 |
| 6 | 6061 | 8 | 0544 | 11 | 5517 | 3 | 54 |
| 7 | 66013 | 8 | 50478 | 11 | 15535 | 3 | 53 |
| 8 | 5965 | 8 | 0413 | 11 | 5552 | 3 | 52 |
| 9 | 5917 | 8 | 0347 | 11 | 5570 | 3 | 51 |
| 10 | 65869 | 8 | 5 281 | 11 | 15588 | 3 | 50 |
| 11 | 5821 | 8 | 0216 | 11 | 5605 | 3 | 49 |
| 12 | 5773 | 8 | 0150 | 11 | 5623 | 3 | 48 |
| 13 | 65725 | 8 | 50084 | 11 | 15640 | 3 | 47 |
| 14 | 5677 | 8 | 50019 | 11 | 5658 | 3 | 46 |
| 15 | 5629 | 8 | 49953 | 11 | 5676 | 3 | 45 |
| 16 | 65581 | 8 | 49888 | 11 | 15693 | 3 | 44 |
| 17 | 5533 | 8 | 9822 | 11 | 5711 | 3 | 43 |
| 18 | 5485 | 8 | 9756 | 11 | 5729 | 3 | 42 |
| 19 | 65437 | 8 | 49691 | 11 | 15746 | 3 | 41 |
| 20 | 5389 | 8 | 9625 | 11 | 5764 | 3 | 40 |
| 21 | 5342 | 8 | 9560 | 11 | 5782 | 3 | 39 |
| 22 | 65294 | 8 | 49495 | 11 | 15799 | 3 | 38 |
| 23 | 5246 | 8 | 9429 | 11 | 5817 | 3 | 37 |
| 24 | 5199 | 8 | 9364 | 11 | 5835 | 3 | 36 |
| 25 | 65151 | 8 | 49298 | 11 | 15853 | 3 | 35 |
| 26 | 5103 | 8 | 9233 | 11 | 5871 | 3 | 34 |
| 27 | 5056 | 8 | 9168 | 11 | 5888 | 3 | 33 |
| 28 | 65008 | 8 | 49102 | 11 | 15906 | 3 | 32 |
| 29 | 4961 | 8 | 9037 | 11 | 5924 | 3 | 31 |
| 30 | 4913 | | 8971 | | 5942 | | 30 |

| / | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff. pro 10 | / |
|---|---|---|---|---|---|---|---|
| 30 | 64913 | 8 | 48971 | 11 | 15942 | 3 | 30 |
| 31 | 4866 | 8 | 8906 | 11 | 5960 | 3 | 29 |
| 32 | 4818 | 8 | 8841 | 11 | 5977 | 3 | 28 |
| 33 | 4771 | 8 | 8776 | 11 | 5995 | 3 | 27 |
| 34 | 64724 | 8 | 48711 | 11 | 16013 | 3 | 26 |
| 35 | 4676 | 8 | 8645 | 11 | 6031 | 3 | 25 |
| 36 | 4629 | 8 | 8580 | 11 | 6049 | 3 | 24 |
| 37 | 64582 | 8 | 48515 | 11 | 16067 | 3 | 23 |
| 38 | 4534 | 8 | 8450 | 11 | 6085 | 3 | 22 |
| 39 | 4487 | 8 | 8385 | 11 | 6103 | 3 | 21 |
| 40 | 64440 | 8 | 48319 | 11 | 16121 | 3 | 20 |
| 41 | 4393 | 8 | 8254 | 11 | 6139 | 3 | 19 |
| 42 | 4346 | 8 | 8189 | 11 | 6156 | 3 | 18 |
| 43 | 64299 | 8 | 48124 | 11 | 16174 | 3 | 17 |
| 44 | 4252 | 8 | 8059 | 11 | 6192 | 3 | 16 |
| 45 | 4205 | 8 | 7994 | 11 | 6210 | 3 | 15 |
| 46 | 64158 | 8 | 47929 | 11 | 16228 | 3 | 14 |
| 47 | 4111 | 8 | 7864 | 11 | 6246 | 3 | 13 |
| 48 | 4064 | 8 | 7799 | 11 | 6264 | 3 | 12 |
| 49 | 64017 | 8 | 47734 | 11 | 16283 | 3 | 11 |
| 50 | 3970 | 8 | 7669 | 11 | 6301 | 3 | 10 |
| 51 | 3923 | 8 | 7605 | 11 | 6319 | 3 | 9 |
| 52 | 63876 | 8 | 47540 | 11 | 16337 | 3 | 8 |
| 53 | 3830 | 8 | 7475 | 11 | 6355 | 3 | 7 |
| 54 | 3783 | 8 | 7410 | 11 | 6373 | 3 | 6 |
| 55 | 63736 | 8 | 47345 | 11 | 16391 | 3 | 5 |
| 56 | 3689 | 8 | 7280 | 11 | 6409 | 3 | 4 |
| 57 | 3643 | 8 | 7216 | 11 | 6427 | 3 | 3 |
| 58 | 63596 | 8 | 47151 | 11 | 16445 | 3 | 2 |
| 59 | 3550 | 8 | 7086 | 11 | 6464 | 3 | 1 |
| 60 | 3503 | 8 | 7021 | 11 | 6482 | 3 | 0 |

| / | Logar. | Diff. pro 10 | Mesolog | Diff. pro 10 | Logar. | Diff. pro 10 | / |
|---|---|---|---|---|---|---|---|
| 0 | 63503 | 8 | 47021 | 11 | 16482 | 3 | 60 |
| 1 | 3456 | 8 | 46956 | 11 | 6500 | 3 | 59 |
| 2 | 3410 | 8 | 6892 | 11 | 6518 | 3 | 58 |
| 3 | 3363 | 8 | 6827 | 11 | 6536 | 3 | 57 |
| 4 | 63317 | 8 | 46762 | 11 | 16555 | 3 | 56 |
| 5 | 3271 | 8 | 6698 | 11 | 6573 | 3 | 55 |
| 6 | 3224 | 8 | 6633 | 11 | 6591 | 3 | 54 |
| 7 | 63178 | 8 | 46569 | 11 | 16609 | 3 | 53 |
| 8 | 3132 | 8 | 6504 | 11 | 6628 | 3 | 52 |
| 9 | 3085 | 8 | 6439 | 11 | 6646 | 3 | 51 |
| 10 | 63039 | 8 | 46375 | 11 | 16664 | 3 | 50 |
| 11 | 2993 | 8 | 6310 | 11 | 6682 | 3 | 49 |
| 12 | 2947 | 8 | 6246 | 11 | 6701 | 3 | 48 |
| 13 | 62900 | 8 | 46181 | 11 | 16719 | 3 | 47 |
| 14 | 2854 | 8 | 6117 | 11 | 6737 | 3 | 46 |
| 15 | 2808 | 8 | 6052 | 11 | 6756 | 3 | 45 |
| 16 | 62762 | 8 | 45988 | 11 | 16774 | 3 | 44 |
| 17 | 2716 | 8 | 5924 | 11 | 6792 | 3 | 43 |
| 18 | 2670 | 8 | 5859 | 11 | 6811 | 3 | 42 |
| 19 | 62624 | 8 | 45795 | 11 | 16829 | 3 | 41 |
| 20 | 2578 | 8 | 5730 | 11 | 6848 | 3 | 40 |
| 21 | 2532 | 8 | 5666 | 11 | 6866 | 3 | 39 |
| 22 | 62486 | 8 | 45602 | 11 | 16884 | 3 | 38 |
| 23 | 2440 | 8 | 5537 | 11 | 6903 | 3 | 37 |
| 24 | 2394 | 8 | 5473 | 11 | 6921 | 3 | 36 |
| 25 | 62349 | 8 | 45409 | 11 | 16940 | 3 | 35 |
| 26 | 2303 | 8 | 5344 | 11 | 6958 | 3 | 34 |
| 27 | 2257 | 8 | 5280 | 11 | 6977 | 3 | 33 |
| 28 | 62211 | 8 | 45216 | 11 | 16995 | 3 | 32 |
| 29 | 2166 | 8 | 5152 | 11 | 7014 | 3 | 31 |
| 30 | 2120 | 8 | 5088 | 11 | 7032 | | 30 |

| / | Logar. | Diff. / pro 10 | Mesolog | Diff. / pro 10 | Logar | Diff. / pro 10 | / |
|---|---|---|---|---|---|---|---|
| 30 | 62120 | 8 | 45088 | 11 | 17032 | 3 | 30 |
| 31 | 2074 | 8 | 5023 | 11 | 7051 | 3 | 29 |
| 32 | 2029 | 8 | 4959 | 11 | 7069 | 3 | 28 |
| 33 | 1983 | 8 | 4895 | 11 | 7088 | 3 | 27 |
| 34 | 61937 | 8 | 44831 | 11 | 17107 | 3 | 26 |
| 35 | 1892 | 8 | 4767 | 11 | 7125 | 3 | 25 |
| 36 | 1846 | 8 | 4703 | 11 | 7144 | 3 | 24 |
| 37 | 61801 | 8 | 44639 | 11 | 17162 | 3 | 23 |
| 38 | 1756 | 8 | 4575 | 11 | 7181 | 3 | 22 |
| 39 | 1710 | 8 | 4510 | 11 | 7200 | 3 | 21 |
| 40 | 61665 | 8 | 44446 | 11 | 17218 | 3 | 20 |
| 41 | 1619 | 8 | 4382 | 11 | 7237 | 3 | 19 |
| 42 | 1574 | 8 | 4318 | 11 | 7256 | 3 | 18 |
| 43 | 61529 | 8 | 44255 | 11 | 17274 | 3 | 17 |
| 44 | 1484 | 8 | 4191 | 11 | 7293 | 3 | 16 |
| 45 | 1438 | 8 | 4127 | 11 | 7312 | 3 | 15 |
| 46 | 61393 | 8 | 44063 | 11 | 17330 | 3 | 14 |
| 47 | 1348 | 8 | 3999 | 11 | 7349 | 3 | 13 |
| 48 | 1303 | 8 | 3935 | 11 | 7368 | 3 | 12 |
| 49 | 61258 | 8 | 43871 | 11 | 17387 | 3 | 11 |
| 50 | 1213 | 8 | 3807 | 11 | 7405 | 3 | 10 |
| 51 | 1167 | 8 | 3743 | 11 | 7424 | 3 | 9 |
| 52 | 61122 | 8 | 43679 | 11 | 17443 | 3 | 8 |
| 53 | 1077 | 8 | 3616 | 11 | 7462 | 3 | 7 |
| 54 | 1032 | 8 | 3552 | 11 | 7481 | 3 | 6 |
| 55 | 60987 | 7 | 43488 | 11 | 17499 | 3 | 5 |
| 56 | 0943 | 7 | 3424 | 11 | 7518 | 3 | 4 |
| 57 | 0898 | 7 | 3361 | 11 | 7537 | 3 | 3 |
| 58 | 60853 | 7 | 43297 | 11 | 17556 | 3 | 2 |
| 59 | 0808 | 7 | 3233 | 11 | 7575 | 3 | 1 |
| 60 | 0763 | | 3169 | | 7594 | | 0 |

| / | Logar. | Diff. II pro 10 | Mesolog. | Diff. II pro 10 | Logar. | Diff. II pro 10 | / |
|---|---|---|---|---|---|---|---|
| 0 | 60763 | 7 | 43169 | 11 | 17594 | 3 | 60 |
| 1 | 0718 | 7 | 3106 | 11 | 7613 | 3 | 59 |
| 2 | 0674 | 7 | 3042 | 11 | 7631 | 3 | 58 |
| 3 | 0629 | 7 | 2978 | 11 | 7650 | 3 | 57 |
| 4 | 60584 | 7 | 42915 | 11 | 17669 | 3 | 56 |
| 5 | 0540 | 7 | 2851 | 11 | 7688 | 3 | 55 |
| 6 | 0495 | 7 | 2788 | 11 | 7707 | 3 | 54 |
| 7 | 60450 | 7 | 42724 | 11 | 17726 | 3 | 53 |
| 8 | 0406 | 7 | 2661 | 11 | 7745 | 3 | 52 |
| 9 | 0361 | 7 | 2597 | 11 | 7764 | 3 | 51 |
| 10 | 60317 | 7 | 42533 | 11 | 17783 | 3 | 50 |
| 11 | 0272 | 7 | 2470 | 11 | 7802 | 3 | 49 |
| 12 | 0228 | 7 | 2406 | 11 | 7821 | 3 | 48 |
| 13 | 60183 | 7 | 42343 | 11 | 17840 | 3 | 47 |
| 14 | 0139 | 7 | 2280 | 11 | 7859 | 3 | 46 |
| 15 | 0094 | 7 | 2216 | 11 | 7878 | 3 | 45 |
| 16 | 60050 | 7 | 42153 | 11 | 17897 | 3 | 44 |
| 17 | 60006 | 7 | 2089 | 11 | 7917 | 3 | 43 |
| 18 | 59961 | 7 | 2026 | 11 | 7936 | 3 | 42 |
| 19 | 59917 | 7 | 41962 | 11 | 17955 | 3 | 41 |
| 20 | 9873 | 7 | 1899 | 11 | 7974 | 3 | 40 |
| 21 | 9829 | 7 | 1836 | 11 | 7993 | 3 | 39 |
| 22 | 59785 | 7 | 41772 | 11 | 18012 | 3 | 38 |
| 23 | 9740 | 7 | 1709 | 11 | 8031 | 3 | 37 |
| 24 | 9696 | 7 | 1646 | 11 | 8051 | 3 | 36 |
| 25 | 59652 | 7 | 41582 | 11 | 18070 | 3 | 35 |
| 26 | 9608 | 7 | 1519 | 11 | 8089 | 3 | 34 |
| 27 | 9564 | 7 | 1456 | 11 | 8108 | 3 | 33 |
| 28 | 59520 | 7 | 41393 | 11 | 18127 | 3 | 32 |
| 29 | 9476 | 7 | 1329 | 11 | 8147 | 3 | 31 |
| 30 | 9432 | | 1266 | | 8166 | | 30 |

| / | Logar. | Diff. p.10 | Mesolog. | Diff. pro10 | Logar. | Diff. pro10 | / |
|---|---|---|---|---|---|---|---|
| 30 | 59432 | 7 | 41266 | 11 | 18166 | 3 | 30 |
| 31 | 9388 | 7 | 1203 | 11 | 8185 | 3 | 29 |
| 32 | 9344 | 7 | 1140 | 11 | 8204 | 3 | 28 |
| 33 | 9300 | 7 | 1077 | 11 | 8224 | 3 | 27 |
| 34 | 59257 | 7 | 41014 | 11 | 18243 | 3 | 26 |
| 35 | 9213 | 7 | 0950 | 11 | 8262 | 3 | 25 |
| 36 | 9169 | 7 | 0887 | 11 | 8282 | 3 | 24 |
| 37 | 59125 | 7 | 40824 | 11 | 18301 | 3 | 23 |
| 38 | 9081 | 7 | 0761 | 11 | 8320 | 3 | 22 |
| 39 | 9038 | 7 | 0698 | 11 | 8340 | 3 | 21 |
| 40 | 58994 | 7 | 40635 | 11 | 18359 | 3 | 20 |
| 41 | 8950 | 7 | 0572 | 11 | 8378 | 3 | 19 |
| 42 | 8907 | 7 | 0509 | 11 | 8398 | 3 | 18 |
| 43 | 58863 | 7 | 40446 | 11 | 18417 | 3 | 17 |
| 44 | 8820 | 7 | 0383 | 11 | 8437 | 3 | 16 |
| 45 | 8776 | 7 | 0320 | 11 | 8456 | 3 | 15 |
| 46 | 58732 | 7 | 40257 | 11 | 18475 | 3 | 14 |
| 47 | 8689 | 7 | 0194 | 11 | 8495 | 3 | 13 |
| 48 | 8645 | 7 | 0131 | 11 | 8514 | 3 | 12 |
| 49 | 58602 | 7 | 40068 | 11 | 18534 | 3 | 11 |
| 50 | 8559 | 7 | 40005 | 11 | 8553 | 3 | 10 |
| 51 | 8515 | 7 | 39942 | 10 | 8573 | 3 | 9 |
| 52 | 58472 | 7 | 39880 | 10 | 18592 | 3 | 8 |
| 53 | 8429 | 7 | 9817 | 10 | 8612 | 3 | 7 |
| 54 | 8385 | 7 | 9754 | 10 | 8631 | 3 | 6 |
| 55 | 58342 | 7 | 39691 | 10 | 18651 | 3 | 5 |
| 56 | 8299 | 7 | 9628 | 10 | 8671 | 3 | 4 |
| 57 | 8256 | 7 | 9565 | 10 | 8690 | 3 | 3 |
| 58 | 58212 | 7 | 39503 | 10 | 18710 | 3 | 2 |
| 59 | 8169 | 7 | 9440 | 10 | 8729 | 3 | 1 |
| 60 | 8126 | | 9377 | | 8749 | | 0 |

| ′ | Logar. | Diff. I pro 10 | Meſolog. | Diff. I pro 10 | Logar | Diff. I pro 10 | ′ |
|---|---|---|---|---|---|---|---|
| 0 | 58126 | | 39377 | | 18749 | | 60 |
| 1 | 8083 | 7 | 9314 | 10 | 8769 | 3 | 59 |
| 2 | 8040 | 7 | 9252 | 10 | 8788 | 3 | 58 |
| 3 | 7997 | 7 | 9189 | 10 | 8808 | 3 | 57 |
| 4 | 57954 | | 39126 | | 18828 | | 56 |
| 5 | 7911 | 7 | 9064 | 10 | 8847 | 3 | 55 |
| 6 | 7868 | 7 | 9001 | 10 | 8867 | 3 | 54 |
| 7 | 57825 | | 38938 | | 18887 | | 53 |
| 8 | 7782 | 7 | 8876 | 10 | 8906 | 3 | 52 |
| 9 | 7739 | 7 | 8813 | 10 | 8926 | 3 | 51 |
| 10 | 57696 | | 38750 | | 18946 | | 50 |
| 11 | 7653 | 7 | 8688 | 10 | 8965 | 3 | 49 |
| 12 | 7610 | 7 | 8625 | 10 | 8985 | 3 | 48 |
| 13 | 57568 | | 38563 | | 19005 | | 47 |
| 14 | 7525 | 7 | 8500 | 10 | 9025 | 3 | 46 |
| 15 | 7482 | 7 | 8437 | 10 | 9045 | 3 | 45 |
| 16 | 57439 | | 38375 | | 19064 | | 44 |
| 17 | 7397 | 7 | 8313 | 10 | 9084 | 3 | 43 |
| 18 | 7354 | 7 | 8250 | 10 | 9104 | 3 | 42 |
| 19 | 57311 | | 38187 | | 19124 | | 41 |
| 20 | 7269 | 7 | 8125 | 10 | 9144 | 3 | 40 |
| 21 | 7226 | 7 | 8063 | 10 | 9164 | 3 | 39 |
| 22 | 57184 | | 38000 | | 19184 | | 38 |
| 23 | 7141 | 7 | 7938 | 10 | 9203 | 3 | 37 |
| 24 | 7099 | 7 | 7875 | 10 | 9223 | 3 | 36 |
| 25 | 57056 | | 37813 | | 19243 | | 35 |
| 26 | 7014 | 7 | 7751 | 10 | 9263 | 3 | 34 |
| 27 | 6971 | 7 | 7688 | 10 | 9283 | 3 | 33 |
| 28 | 56929 | | 37626 | | 19303 | | 32 |
| 29 | 6887 | 7 | 7564 | 10 | 9323 | 3 | 31 |
| 30 | 6844 | 7 | 7501 | 10 | 9343 | 3 | 30 |

| / | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. + — | Diff. pro 10 | / |
|---|---|---|---|---|---|---|---|
| 30 | 56844 | 7 | 37501 | 10 | 19343 | 3 | 30 |
| 31 | 6802 | 7 | 7439 | 10 | 9363 | 3 | 29 |
| 32 | 6760 | 7 | 7377 | 10 | 9383 | 3 | 28 |
| 33 | 6717 | 7 | 7314 | 10 | 9403 | 3 | 27 |
| 34 | 56675 | 7 | 37252 | 10 | 19423 | 3 | 26 |
| 35 | 6633 | 7 | 7190 | 10 | 9443 | 3 | 25 |
| 36 | 6591 | 7 | 7128 | 10 | 9463 | 2 | 24 |
| 37 | 56549 | 7 | 37065 | 10 | 19483 | 3 | 23 |
| 38 | 6507 | 7 | 7003 | 10 | 9503 | 3 | 22 |
| 39 | 6464 | 7 | 6941 | 10 | 9524 | 3 | 21 |
| 40 | 56422 | 7 | 36879 | 10 | 19544 | 3 | 20 |
| 41 | 6380 | 7 | 6817 | 10 | 9564 | 3 | 19 |
| 42 | 6338 | 7 | 6754 | 10 | 9584 | 3 | 18 |
| 43 | 56296 | 7 | 36692 | 10 | 19604 | 3 | 17 |
| 44 | 6254 | 7 | 6630 | 10 | 9624 | 3 | 16 |
| 45 | 6212 | 7 | 6568 | 10 | 9644 | 3 | 15 |
| 46 | 56170 | 7 | 36506 | 10 | 19665 | 3 | 14 |
| 47 | 6129 | 7 | 6444 | 10 | 9685 | 3 | 13 |
| 48 | 6087 | 7 | 6382 | 10 | 9705 | 3 | 12 |
| 49 | 56045 | 7 | 36320 | 10 | 19725 | 3 | 11 |
| 50 | 6003 | 7 | 6258 | 10 | 9745 | 3 | 10 |
| 51 | 5961 | 7 | 6196 | 10 | 9766 | 3 | 9 |
| 52 | 55920 | 7 | 36134 | 10 | 19786 | 3 | 8 |
| 53 | 5878 | 7 | 6072 | 10 | 9806 | 3 | 7 |
| 54 | 5836 | 7 | 6009 | 10 | 9827 | 3 | 6 |
| 55 | 55794 | 7 | 35948 | 10 | 19847 | 3 | 5 |
| 56 | 5753 | 7 | 5886 | 10 | 9867 | 3 | 4 |
| 57 | 5711 | 7 | 5824 | 10 | 9887 | 3 | 3 |
| 58 | 55669 | 7 | 35762 | 10 | 19908 | 3 | 2 |
| 59 | 5628 | 7 | 5700 | 10 | 9928 | 3 | 1 |
| 60 | 5586 | 7 | 5637 | 10 | 9949 | 3 | 0 |

| / | Logar. | Diff. pro 10 | Mesolog | Diff. pro 10 | Logar. | Diff. pro 10 | / |
|---|---|---|---|---|---|---|---|
| 0 | 55586 | 7 | 35638 | 10 | 19949 | 3 | 60 |
| 1 | 5545 | 7 | 5576 | 10 | 9969 | 3 | 59 |
| 2 | 5503 | 7 | 5514 | 10 | 19989 | 3 | 58 |
| 3 | 5462 | 7 | 5452 | 10 | 20010 | 3 | 57 |
| 4 | 55420 | 7 | 35390 | 10 | 20030 | 3 | 56 |
| 5 | 5379 | 7 | 5328 | 10 | 0050 | 3 | 55 |
| 6 | 5338 | 7 | 5267 | 10 | 0071 | 3 | 54 |
| 7 | 55296 | 7 | 35205 | 10 | 20091 | 3 | 53 |
| 8 | 5255 | 7 | 5143 | 10 | 0112 | 3 | 52 |
| 9 | 5213 | 7 | 5081 | 10 | 0132 | 3 | 51 |
| 10 | 55172 | 7 | 35019 | 10 | 20153 | 3 | 50 |
| 11 | 5131 | 7 | 4958 | 10 | 0173 | 3 | 49 |
| 12 | 5090 | 7 | 4896 | 10 | 0194 | 3 | 48 |
| 13 | 55048 | 7 | 34834 | 10 | 20214 | 3 | 47 |
| 14 | 5007 | 7 | 4772 | 10 | 0235 | 3 | 46 |
| 15 | 4966 | 7 | 4711 | 10 | 0255 | 3 | 45 |
| 16 | 54925 | 7 | 34649 | 10 | 20276 | 3 | 44 |
| 17 | 4884 | 7 | 4587 | 10 | 0297 | 3 | 43 |
| 18 | 4843 | 7 | 4526 | 10 | 0317 | 3 | 42 |
| 19 | 54802 | 7 | 34464 | 10 | 20338 | 3 | 41 |
| 20 | 4761 | 7 | 4402 | 10 | 0358 | 3 | 40 |
| 21 | 4720 | 7 | 4341 | 10 | 0379 | 3 | 39 |
| 22 | 54679 | 7 | 34279 | 10 | 20400 | 3 | 38 |
| 23 | 4638 | 7 | 4217 | 10 | 0420 | 3 | 37 |
| 24 | 4597 | 7 | 4156 | 10 | 0441 | 3 | 36 |
| 25 | 54556 | 7 | 34094 | 10 | 20462 | 3 | 35 |
| 26 | 4515 | 7 | 4033 | 10 | 0482 | 3 | 34 |
| 27 | 4474 | 7 | 3971 | 10 | 0503 | 3 | 33 |
| 28 | 54433 | 7 | 33909 | 10 | 20524 | 3 | 32 |
| 29 | 4392 | 7 | 3848 | 10 | 0545 | 3 | 31 |
| 30 | 4352 | 7 | 3786 | 10 | 0565 | 3 | 30 |

| / | Logar | Diffi. pro 10 | Mesolog | Diffi pro 10 | Logar. | Diffi pro 10 | / |
|---|---|---|---|---|---|---|---|
| 30 | 54352 | | 33786 | | 20569 | | 30 |
| | | 7 | | 10 | | 3 | |
| 31 | 4311 | | 3725 | | 0586 | | 29 |
| | | 7 | | 10 | | 3 | |
| 32 | 4270 | | 3663 | | 0607 | | 28 |
| | | 7 | | 10 | | 3 | |
| 33 | 4229 | | 3602 | | 0628 | | 27 |
| | | 7 | | 10 | | 3 | |
| 34 | 54189 | | 33540 | | 20648 | | 26 |
| | | 7 | | 10 | | 3 | |
| 35 | 4148 | | 3479 | | 0669 | | 25 |
| | | 7 | | 10 | | 3 | |
| 36 | 4107 | | 3417 | | 0690 | | 24 |
| | | 7 | | 10 | | 3 | |
| 37 | 54067 | | 33356 | | 20711 | | 23 |
| | | 7 | | 10 | | 3 | |
| 38 | 4026 | | 3294 | | 0732 | | 22 |
| | | 7 | | 10 | | 3 | |
| 39 | 3986 | | 3233 | | 0753 | | 21 |
| | | 7 | | 10 | | 3 | |
| 40 | 53945 | | 33172 | | 20773 | | 20 |
| | | 7 | | 10 | | 3 | |
| 41 | 3904 | | 3110 | | 0794 | | 19 |
| | | 7 | | 10 | | 3 | |
| 42 | 3864 | | 3049 | | 0815 | | 18 |
| | | 7 | | 10 | | 3 | |
| 43 | 53823 | | 32987 | | 20836 | | 17 |
| | | 7 | | 10 | | 3 | |
| 44 | 3783 | | 2926 | | 0857 | | 16 |
| | | 7 | | 10 | | 3 | |
| 45 | 3743 | | 2865 | | 0878 | | 15 |
| | | 7 | | 10 | | 3 | |
| 46 | 53702 | | 32803 | | 20899 | | 14 |
| | | 7 | | 10 | | 3 | |
| 47 | 3662 | | 2742 | | 0920 | | 13 |
| | | 7 | | 10 | | 3 | |
| 48 | 3622 | | 2681 | | 0941 | | 12 |
| | | 7 | | 10 | | 3 | |
| 49 | 53581 | | 32619 | | 20962 | | 11 |
| | | 7 | | 10 | | 3 | |
| 50 | 3541 | | 2558 | | 0983 | | 10 |
| | | 7 | | 10 | | 3 | |
| 51 | 3501 | | 2497 | | 1004 | | 9 |
| | | 7 | | 10 | | 3 | |
| 52 | 53460 | | 32436 | | 21025 | | 8 |
| | | 7 | | 10 | | 3 | |
| 53 | 3420 | | 2374 | | 1046 | | 7 |
| | | 7 | | 10 | | 3 | |
| 54 | 3380 | | 2313 | | 1067 | | 6 |
| | | 7 | | 10 | | 3 | |
| 55 | 53340 | | 32252 | | 21088 | | 5 |
| | | 7 | | 10 | | 3 | |
| 56 | 3300 | | 2191 | | 1109 | | 4 |
| | | 7 | | 10 | | 3 | |
| 57 | 3260 | | 2129 | | 1130 | | 3 |
| | | 7 | | 10 | | 3 | |
| 58 | 53219 | | 32068 | | 21151 | | 2 |
| | | 7 | | 10 | | 3 | |
| 59 | 3179 | | 2007 | | 1172 | | 1 |
| | | 7 | | 10 | | 3 | |
| 60 | 3139 | | 1946 | | 1193 | | 0 |

| ′ | Logar | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff. pro 10 | ′ |
|---|---|---|---|---|---|---|---|
| 0 | 53140 | 7 | 31946 | 10 | 21193 | 4 | 60 |
| 1 | 3099 | 7 | 1885 | 10 | 1215 | 4 | 59 |
| 2 | 3059 | 7 | 1823 | 10 | 1236 | 4 | 58 |
| 3 | 3019 | 7 | 1762 | 10 | 1257 | 4 | 57 |
| 4 | 52979 | 7 | 31701 | 10 | 21278 | 4 | 56 |
| 5 | 2939 | 7 | 1640 | 10 | 1299 | 4 | 55 |
| 6 | 2900 | 7 | 1579 | 10 | 1321 | 4 | 54 |
| 7 | 52860 | 7 | 31518 | 10 | 21342 | 4 | 53 |
| 8 | 2820 | 7 | 1457 | 10 | 1363 | 4 | 52 |
| 9 | 2780 | 7 | 1396 | 10 | 1384 | 4 | 51 |
| 10 | 52740 | 7 | 31335 | 10 | 21405 | 4 | 50 |
| 11 | 2700 | 7 | 1274 | 10 | 1427 | 4 | 49 |
| 12 | 2661 | 7 | 1213 | 10 | 1448 | 4 | 48 |
| 13 | 52621 | 7 | 31152 | 10 | 21469 | 4 | 47 |
| 14 | 2581 | 7 | 1090 | 10 | 1491 | 4 | 46 |
| 15 | 2541 | 7 | 1029 | 10 | 1512 | 4 | 45 |
| 16 | 52502 | 7 | 30969 | 10 | 21533 | 4 | 44 |
| 17 | 2462 | 7 | 0907 | 10 | 1555 | 4 | 43 |
| 18 | 2423 | 7 | 0847 | 10 | 1576 | 4 | 42 |
| 19 | 52383 | 7 | 30786 | 10 | 21597 | 4 | 41 |
| 20 | 2343 | 7 | 0725 | 10 | 1619 | 4 | 40 |
| 21 | 2304 | 7 | 0664 | 10 | 1640 | 4 | 39 |
| 22 | 52264 | 7 | 30603 | 10 | 21662 | 4 | 38 |
| 23 | 2225 | 7 | 0542 | 10 | 1683 | 4 | 37 |
| 24 | 2185 | 7 | 0481 | 10 | 1704 | 4 | 36 |
| 25 | 52146 | 7 | 30420 | 10 | 21726 | 4 | 35 |
| 26 | 2107 | 7 | 0359 | 10 | 1747 | 4 | 34 |
| 27 | 2067 | 7 | 0298 | 10 | 1769 | 4 | 33 |
| 28 | 52028 | 7 | 30237 | 10 | 21790 | 4 | 32 |
| 29 | 1988 | 7 | 0177 | 10 | 1812 | 4 | 31 |
| 30 | 1949 | | 0116 | | 1833 | | 30 |

| ′ | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff. pro 10 | ′ |
|---|---|---|---|---|---|---|---|
| 30 | 51949 | 7 | 30116 | 10 | 21833 | 4 | 30 |
| 31 | 1910 | 7 | 30055 | 10 | 1855 | 4 | 29 |
| 32 | 1871 | 7 | 29994 | 10 | 1876 | 4 | 28 |
| 33 | 1831 | 7 | 9933 | 10 | 1898 | 4 | 27 |
| 34 | 51792 | 7 | 29872 | 10 | 21920 | 4 | 26 |
| 35 | 1753 | 7 | 9812 | 10 | 1941 | 4 | 25 |
| 36 | 1714 | 7 | 9751 | 10 | 1963 | 4 | 24 |
| 37 | 51675 | 7 | 29690 | 10 | 21984 | 4 | 23 |
| 38 | 1635 | 7 | 9629 | 10 | 2006 | 4 | 22 |
| 39 | 1596 | 7 | 9569 | 10 | 2028 | 4 | 21 |
| 40 | 51557 | 7 | 29508 | 10 | 22049 | 4 | 20 |
| 41 | 1518 | 7 | 9447 | 10 | 2071 | 4 | 19 |
| 42 | 1479 | 7 | 9386 | 10 | 2093 | 4 | 18 |
| 43 | 51440 | 7 | 29326 | 10 | 22114 | 4 | 17 |
| 44 | 1401 | 7 | 9265 | 10 | 2136 | 4 | 16 |
| 45 | 1362 | 7 | 9204 | 10 | 2158 | 4 | 15 |
| 46 | 51323 | 7 | 29144 | 10 | 22179 | 4 | 14 |
| 47 | 1284 | 7 | 9083 | 10 | 2201 | 4 | 13 |
| 48 | 1245 | 7 | 9022 | 10 | 2223 | 4 | 12 |
| 49 | 51206 | 6 | 28962 | 10 | 22245 | 4 | 11 |
| 50 | 1168 | 6 | 8901 | 10 | 2266 | 4 | 10 |
| 51 | 1129 | 6 | 8841 | 10 | 2288 | 4 | 9 |
| 52 | 51090 | 6 | 28780 | 10 | 22310 | 4 | 8 |
| 53 | 1051 | 6 | 8719 | 10 | 2332 | 4 | 7 |
| 54 | 1013 | 6 | 8657 | 10 | 2354 | 4 | 6 |
| 55 | 50974 | 6 | 28598 | 10 | 22376 | 4 | 5 |
| 56 | 0935 | 6 | 8538 | 10 | 2397 | 4 | 4 |
| 57 | 0896 | 6 | 8477 | 10 | 2419 | 4 | 3 |
| 58 | 50858 | 6 | 28417 | 10 | 22441 | 4 | 2 |
| 59 | 0819 | 6 | 8356 | 10 | 2463 | 4 | 1 |
| 60 | 0780 | | 8295 | | 2485 | | 0 |

| / | Logar. | Diff. / pro 10 | Mesolog. | Diff. / pro 10 | Logar. | Diff. / pro 10 | / |
|---|---|---|---|---|---|---|---|
| 0 | 50780 | 6 | 28295 | 10 | 22485 | 4 | 60 |
| 1 | 0742 | 6 | 8235 | 10 | 2507 | 4 | 59 |
| 2 | 0703 | 6 | 8174 | 10 | 2529 | 4 | 58 |
| 3 | 0665 | 6 | 8114 | 10 | 2551 | 4 | 57 |
| 4 | 50626 | | 28053 | 10 | 22573 | 4 | 56 |
| 5 | 0588 | 6 | 7993 | 10 | 2595 | 4 | 55 |
| 6 | 0549 | 6 | 7932 | 10 | 2617 | 4 | 54 |
| 7 | 50511 | 6 | 27872 | 10 | 22639 | 4 | 53 |
| 8 | 0472 | 6 | 7811 | 10 | 2661 | 4 | 52 |
| 9 | 0434 | 6 | 7751 | 10 | 2683 | 4 | 51 |
| 10 | 50396 | 6 | 27691 | 10 | 22705 | 4 | 50 |
| 11 | 0357 | 6 | 7630 | 10 | 2727 | 4 | 49 |
| 12 | 0319 | 6 | 7570 | 10 | 2749 | 4 | 48 |
| 13 | 50281 | 6 | 27510 | 10 | 22771 | 4 | 47 |
| 14 | 0242 | 6 | 7449 | 10 | 2793 | 4 | 46 |
| 15 | 0204 | 6 | 7389 | 10 | 2815 | 4 | 45 |
| 16 | 50166 | 6 | 27328 | 10 | 22837 | 4 | 44 |
| 17 | 0128 | 6 | 7268 | 10 | 2860 | 4 | 43 |
| 18 | 0089 | 6 | 7208 | 10 | 2882 | 4 | 42 |
| 19 | 50051 | 6 | 27147 | 10 | 22904 | 4 | 41 |
| 20 | 50013 | 6 | 7087 | 10 | 2926 | 4 | 40 |
| 21 | 49975 | 6 | 7027 | 10 | 2948 | 4 | 39 |
| 22 | 49937 | 6 | 26966 | 10 | 22971 | 4 | 38 |
| 23 | 9899 | 6 | 6906 | 10 | 3993 | 4 | 37 |
| 24 | 9861 | 6 | 6846 | 10 | 3015 | 4 | 36 |
| 25 | 49823 | 6 | 26786 | 10 | 23037 | 4 | 35 |
| 26 | 9785 | 6 | 6725 | 10 | 3059 | 4 | 34 |
| 27 | 9747 | 6 | 6665 | 10 | 3082 | 4 | 33 |
| 28 | 49709 | 6 | 26605 | 10 | 23104 | 4 | 32 |
| 29 | 9671 | 6 | 6544 | 10 | 3126 | 4 | 31 |
| 30 | 9633 | | 6484 | | 3149 | | 30 |

| ′ | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar | Diff. pro 10 | ′ |
|---|---|---|---|---|---|---|---|
| 30 | 49633 | 6 | 26484 | 10 | 23149 | 4 | 30 |
| 31 | 9595 | 6 | 6424 | 10 | 3171 | 4 | 29 |
| 32 | 9557 | 6 | 6364 | 10 | 3193 | 4 | 28 |
| 33 | 9519 | 6 | 6304 | 10 | 3216 | 4 | 27 |
| 34 | 49481 | 6 | 26243 | 10 | 23238 | 4 | 26 |
| 35 | 9444 | 6 | 6183 | 10 | 3260 | 3 | 25 |
| 36 | 9407 | 6 | 6123 | 10 | 3283 | 4 | 24 |
| 37 | 49368 | 6 | 26063 | 10 | 23305 | 4 | 23 |
| 38 | 9330 | 6 | 6003 | 10 | 3328 | 4 | 22 |
| 39 | 9293 | 6 | 5943 | 10 | 3350 | 4 | 21 |
| 40 | 49255 | 6 | 25882 | 10 | 23372 | 4 | 20 |
| 41 | 9217 | 6 | 5822 | 10 | 3395 | 4 | 19 |
| 42 | 9180 | 6 | 5762 | 10 | 3417 | 4 | 18 |
| 43 | 49142 | 6 | 25702 | 10 | 23440 | 4 | 17 |
| 44 | 9104 | 6 | 5642 | 10 | 3462 | 4 | 16 |
| 45 | 9067 | 6 | 5582 | 10 | 3485 | 4 | 15 |
| 46 | 49029 | 6 | 25522 | 10 | 23507 | 4 | 14 |
| 47 | 48992 | 6 | 5462 | 10 | 3530 | 4 | 13 |
| 48 | 8954 | 6 | 5402 | 10 | 3553 | 4 | 12 |
| 49 | 48917 | 6 | 25342 | 10 | 23575 | 4 | 11 |
| 50 | 8879 | 6 | 5281 | 10 | 3598 | 4 | 10 |
| 51 | 8842 | 6 | 5221 | 10 | 3620 | 4 | 9 |
| 52 | 48804 | 6 | 25161 | 10 | 23643 | 4 | 8 |
| 53 | 8767 | 6 | 5101 | 10 | 3666 | 4 | 7 |
| 54 | 8730 | 6 | 5041 | 10 | 3688 | 4 | 6 |
| 55 | 48692 | 6 | 24981 | 10 | 23711 | 4 | 5 |
| 56 | 8655 | 6 | 4921 | 10 | 3733 | 4 | 4 |
| 57 | 8618 | 6 | 4861 | 10 | 3756 | 4 | 3 |
| 58 | 48580 | 6 | 24801 | 10 | 23779 | 4 | 2 |
| 59 | 8543 | 6 | 4741 | 10 | 3802 | 4 | 1 |
| 60 | 8506 | | 4681 | | 3824 | | 0 |

| ′ | Logar. | Diff. pro 10 | Mesolog | Diff. pro 10 | Logar. | Diff. p. 10 | ′ |
|---|---|---|---|---|---|---|---|
| 0 | 48506 | | 24681 | | 23824 | | 60 |
| 1 | 8469 | 6 | 4621 | 10 | 3847 | 4 | 59 |
| 2 | 8431 | 6 | 4561 | 10 | 3870 | 4 | 58 |
| 3 | 8394 | 6 | 4502 | 10 | 3893 | 4 | 57 |
| 4 | 48357 | 6 | 24442 | 10 | 23915 | 4 | 56 |
| 5 | 8320 | 6 | 4382 | 10 | 3938 | 4 | 55 |
| 6 | 8283 | 6 | 4322 | 10 | 3961 | 4 | 54 |
| 7 | 48246 | 6 | 24262 | 10 | 23984 | 4 | 53 |
| 8 | 8209 | 6 | 4202 | 10 | 4007 | 4 | 52 |
| 9 | 8172 | 6 | 4142 | 10 | 4029 | 4 | 51 |
| 10 | 48135 | 6 | 24082 | 10 | 24052 | 4 | 50 |
| 11 | 8098 | 6 | 4022 | 10 | 4075 | 4 | 49 |
| 12 | 8061 | 6 | 3963 | 10 | 4098 | 4 | 48 |
| 13 | 48024 | 6 | 23903 | 10 | 24121 | 4 | 47 |
| 14 | 7987 | 6 | 3843 | 10 | 4144 | 4 | 46 |
| 15 | 7950 | 6 | 3783 | 10 | 4167 | 4 | 45 |
| 16 | 47913 | 6 | 23723 | 10 | 24190 | 4 | 44 |
| 17 | 7876 | 6 | 3663 | 10 | 4213 | 4 | 43 |
| 18 | 7839 | 6 | 3604 | 10 | 4236 | 4 | 42 |
| 19 | 47802 | 6 | 23544 | 10 | 24259 | 4 | 41 |
| 20 | 7766 | 6 | 3484 | 10 | 4282 | 4 | 40 |
| 21 | 7729 | 6 | 3424 | 10 | 4305 | 4 | 39 |
| 22 | 47692 | 6 | 23364 | 10 | 24328 | 4 | 38 |
| 23 | 7655 | 6 | 3305 | 10 | 4351 | 4 | 37 |
| 24 | 7619 | 6 | 3245 | 10 | 4374 | 4 | 36 |
| 25 | 47582 | 6 | 23185 | 10 | 24397 | 4 | 35 |
| 26 | 7545 | 6 | 3125 | 10 | 4420 | 4 | 34 |
| 27 | 7509 | 6 | 3066 | 10 | 4443 | 4 | 33 |
| 28 | 47472 | 6 | 23006 | 10 | 24466 | 4 | 32 |
| 29 | 7435 | 6 | 2946 | 10 | 4489 | 4 | 31 |
| 30 | 7399 | | 2886 | | 4512 | | 30 |

| ′ | Logar. | Diff. pro 10 | Mesolog | Diff. pro 10 | Logar. | Diff. pro 10 | ′ |
|---|---|---|---|---|---|---|---|
| 30 | 47399 | 6 | 22886 | 10 | 24512 | 4 | 30 |
| 31 | 7362 | 6 | 2827 | 10 | 4535 | 4 | 29 |
| 32 | 7326 | 6 | 2767 | 10 | 4559 | 4 | 28 |
| 33 | 7289 | 6 | 2707 | 10 | 4582 | 4 | 27 |
| 34 | 47253 | 6 | 22648 | 10 | 24605 | 4 | 26 |
| 35 | 7216 | 6 | 2588 | 10 | 4628 | 4 | 25 |
| 36 | 7180 | 6 | 2528 | 10 | 4651 | 4 | 24 |
| 37 | 47143 | 6 | 22469 | 10 | 24675 | 4 | 23 |
| 38 | 7107 | 6 | 2409 | 10 | 4698 | 4 | 22 |
| 39 | 7071 | 6 | 2349 | 10 | 4721 | 4 | 21 |
| 40 | 47034 | 6 | 22290 | 10 | 24744 | 4 | 20 |
| 41 | 6998 | 6 | 2230 | 10 | 4768 | 4 | 19 |
| 42 | 6961 | 6 | 2171 | 10 | 4791 | 4 | 18 |
| 43 | 46925 | 6 | 22111 | 10 | 24814 | 4 | 17 |
| 44 | 6889 | 6 | 2051 | 10 | 4838 | 4 | 16 |
| 45 | 6853 | 6 | 1992 | 10 | 4861 | 4 | 15 |
| 46 | 46816 | 6 | 21932 | 10 | 24884 | 4 | 14 |
| 47 | 6780 | 6 | 1873 | 10 | 4908 | 4 | 13 |
| 48 | 6744 | 6 | 1813 | 10 | 4931 | 4 | 12 |
| 49 | 46708 | 6 | 21753 | 10 | 24954 | 4 | 11 |
| 50 | 6672 | 6 | 1694 | 10 | 4978 | 4 | 10 |
| 51 | 6636 | 6 | 1634 | 10 | 5001 | 4 | 9 |
| 52 | 46599 | 6 | 21575 | 10 | 25025 | 4 | 8 |
| 53 | 6563 | 6 | 1515 | 10 | 5048 | 4 | 7 |
| 54 | 6527 | 6 | 1456 | 10 | 5072 | 4 | 6 |
| 55 | 46491 | 6 | 21396 | 10 | 25095 | 4 | 5 |
| 56 | 6455 | 6 | 1337 | 10 | 5119 | 4 | 4 |
| 57 | 6419 | 6 | 1277 | 10 | 5142 | 4 | 3 |
| 58 | 46383 | 6 | 21218 | 10 | 25166 | 4 | 2 |
| 59 | 6347 | 6 | 1158 | 10 | 5189 | 4 | 1 |
| 60 | 6311 | | 1099 | | 5213 | | 0 |

| ′ | Logar. | Diff. pro 10 | Mesolog | Diff. pro 10 | Logar. | Diff. pro 10 | ′ |
|---|---|---|---|---|---|---|---|
| 0 | 46311 | 6 | 21099 | 10 | 25213 | 4 | 60 |
| 1 | 6276 | 6 | 21039 | 10 | 5236 | 4 | 59 |
| 2 | 6240 | 6 | 20980 | 10 | 5260 | 4 | 58 |
| 3 | 6204 | 6 | 20920 | 10 | 5283 | 4 | 57 |
| 4 | 46168 | 6 | 20861 | 10 | 25307 | 4 | 56 |
| 5 | 6132 | 6 | 0801 | 10 | 5331 | 4 | 55 |
| 6 | 6096 | 6 | 0742 | 10 | 5354 | 4 | 54 |
| 7 | 46060 | 6 | 20683 | 10 | 25378 | 4 | 53 |
| 8 | 6025 | 6 | 0623 | 10 | 5402 | 4 | 52 |
| 9 | 5989 | 6 | 0564 | 10 | 5425 | 4 | 51 |
| 10 | 45959 | 6 | 20504 | 10 | 25449 | 3 | 50 |
| 11 | 5918 | 6 | 0445 | 10 | 5473 | 4 | 49 |
| 12 | 5882 | 6 | 0386 | 10 | 5496 | 4 | 48 |
| 13 | 45846 | 6 | 20326 | 10 | 25520 | 4 | 47 |
| 14 | 5811 | 6 | 0267 | 10 | 5544 | 4 | 46 |
| 15 | 5775 | 6 | 0207 | 10 | 5568 | 4 | 45 |
| 16 | 45739 | 6 | 20148 | 10 | 25591 | 4 | 44 |
| 17 | 5704 | 6 | 0089 | 10 | 5615 | 4 | 43 |
| 18 | 5668 | 6 | 20029 | 10 | 5639 | 4 | 42 |
| 19 | 45633 | 6 | 19970 | 10 | 25663 | 4 | 41 |
| 20 | 5597 | 6 | 9911 | 10 | 5687 | 4 | 40 |
| 21 | 5562 | 6 | 9851 | 10 | 5710 | 4 | 39 |
| 22 | 45526 | 6 | 19792 | 10 | 25734 | 4 | 38 |
| 23 | 5491 | 6 | 9733 | 10 | 5758 | 4 | 37 |
| 24 | 5455 | 6 | 9673 | 10 | 5782 | 4 | 36 |
| 25 | 45420 | 6 | 19614 | 10 | 25806 | 4 | 35 |
| 26 | 5385 | 6 | 9555 | 10 | 5830 | 4 | 34 |
| 27 | 5349 | 6 | 9495 | 10 | 5854 | 4 | 33 |
| 28 | 45314 | 6 | 19436 | 10 | 25878 | 4 | 32 |
| 29 | 5279 | 6 | 9377 | 10 | 5902 | 4 | 31 |
| 30 | 5243 | | 9318 | | 5926 | | 30 |

| ′ | Logar. | Diffr. pro 10 | Mesolog | Diffr. pro 10 | Logar. | Diffr. pro 10 | ′ |
|---|---|---|---|---|---|---|---|
| 30 | 45243 | | 19318 | | 25926 | | 30 |
| | | 6 | | 10 | | 4 | |
| 31 | 5208 | | 9258 | | 5950 | | 29 |
| | | 6 | | 10 | | 4 | |
| 32 | 5173 | | 9199 | | 5974 | | 28 |
| | | 6 | | 10 | | 4 | |
| 33 | 5138 | | 9140 | | 5998 | | 27 |
| | | 6 | | 10 | | 4 | |
| 34 | 45102 | | 19081 | | 26022 | | 26 |
| | | 6 | | 10 | | 4 | |
| 35 | 5067 | | 9021 | | 6046 | | 25 |
| | | 6 | | 10 | | 4 | |
| 36 | 5032 | | 8962 | | 6070 | | 24 |
| | | 6 | | 10 | | 4 | |
| 37 | 44997 | | 18903 | | 26094 | | 23 |
| | | 6 | | 10 | | 4 | |
| 38 | 4962 | | 8844 | | 6118 | | 22 |
| | | 6 | | 10 | | 4 | |
| 39 | 4927 | | 8784 | | 6142 | | 21 |
| | | 6 | | 10 | | 4 | |
| 40 | 44891 | | 18725 | | 26166 | | 20 |
| | | 6 | | 10 | | 4 | |
| 41 | 4856 | | 8666 | | 6190 | | 19 |
| | | 6 | | 10 | | 4 | |
| 42 | 4821 | | 8607 | | 6214 | | 18 |
| | | 6 | | 10 | | 4 | |
| 43 | 44786 | | 18548 | | 26239 | | 17 |
| | | 6 | | 10 | | 4 | |
| 44 | 4751 | | 8489 | | 6263 | | 16 |
| | | 6 | | 10 | | 4 | |
| 45 | 4716 | | 8429 | | 6287 | | 15 |
| | | 6 | | 10 | | 4 | |
| 46 | 44681 | | 18370 | | 26311 | | 14 |
| | | 6 | | 10 | | 4 | |
| 47 | 4646 | | 8311 | | 6335 | | 13 |
| | | 6 | | 10 | | 4 | |
| 48 | 4612 | | 8252 | | 6360 | | 12 |
| | | 6 | | 10 | | 4 | |
| 49 | 44577 | | 18193 | | 26384 | | 11 |
| | | 6 | | 10 | | 4 | |
| 50 | 4542 | | 8134 | | 6408 | | 10 |
| | | 6 | | 10 | | 4 | |
| 51 | 4507 | | 8075 | | 6432 | | 9 |
| | | 6 | | 10 | | 4 | |
| 52 | 44472 | | 18015 | | 26457 | | 8 |
| | | 6 | | 10 | | 4 | |
| 53 | 4437 | | 7956 | | 6481 | | 7 |
| | | 6 | | 10 | | 4 | |
| 54 | 4402 | | 7897 | | 6505 | | 6 |
| | | 6 | | 10 | | 4 | |
| 55 | 44368 | | 17838 | | 26530 | | 5 |
| | | 6 | | 10 | | 4 | |
| 56 | 4333 | | 7779 | | 6554 | | 4 |
| | | 6 | | 10 | | 4 | |
| 57 | 4298 | | 7720 | | 6578 | | 3 |
| | | 6 | | 10 | | 4 | |
| 58 | 44263 | | 17661 | | 26603 | | 2 |
| | | 6 | | 10 | | 4 | |
| 59 | 4229 | | 7602 | | 6627 | | 1 |
| | | 6 | | 10 | | 4 | |
| 60 | 4194 | | 7543 | | 6651 | | 0 |

| / | Logar. | Diff. 1 pro 10 | Mesolog | Diff. 1 pro 10 | Logar. | Diff. 1 pro 10 | / |
|---|---|---|---|---|---|---|---|
| 0 | 44194 | 6 | 17542 | 10 | 26651 | 4 | 60 |
| 1 | 4159 | 6 | 7483 | 10 | 6676 | 4 | 59 |
| 2 | 4125 | 6 | 7424 | 10 | 6700 | 4 | 58 |
| 3 | 4090 | 6 | 7365 | 10 | 6725 | 4 | 57 |
| 4 | 44056 | 6 | 17306 | 10 | 26749 | 4 | 56 |
| 5 | 4021 | 6 | 7247 | 10 | 6774 | 4 | 55 |
| 6 | 3986 | 6 | 7188 | 10 | 6798 | 4 | 54 |
| 7 | 43952 | 6 | 17129 | 10 | 26823 | 4 | 53 |
| 8 | 3917 | 6 | 7070 | 10 | 6847 | 4 | 52 |
| 9 | 3883 | 6 | 7011 | 10 | 6872 | 4 | 51 |
| 10 | 43848 | 6 | 16952 | 10 | 26896 | 4 | 50 |
| 11 | 3814 | 6 | 6893 | 10 | 6921 | 4 | 49 |
| 12 | 3780 | 6 | 6834 | 10 | 6945 | 4 | 48 |
| 13 | 43745 | 6 | 16775 | 10 | 26970 | 4 | 47 |
| 14 | 3711 | 6 | 6716 | 10 | 6995 | 4 | 46 |
| 15 | 3676 | 6 | 6657 | 10 | 7019 | 4 | 45 |
| 16 | 43643 | 6 | 16598 | 10 | 27044 | 4 | 44 |
| 17 | 3608 | 6 | 6539 | 10 | 7068 | 4 | 43 |
| 18 | 3573 | 6 | 6480 | 10 | 7093 | 4 | 42 |
| 19 | 43539 | 6 | 16421 | 10 | 27118 | 4 | 41 |
| 20 | 3505 | 6 | 6362 | 10 | 7143 | 4 | 40 |
| 21 | 3471 | 6 | 6303 | 10 | 7167 | 4 | 39 |
| 22 | 43436 | 6 | 16244 | 10 | 27192 | 4 | 38 |
| 23 | 3402 | 6 | 6185 | 10 | 7217 | 4 | 37 |
| 24 | 3368 | 6 | 6126 | 10 | 7241 | 4 | 36 |
| 25 | 43334 | 6 | 16068 | 10 | 27266 | 4 | 35 |
| 26 | 3300 | 6 | 6009 | 10 | 7291 | 4 | 34 |
| 27 | 3265 | 6 | 5950 | 10 | 7316 | 4 | 33 |
| 28 | 43231 | 6 | 15891 | 10 | 27341 | 4 | 32 |
| 29 | 3197 | 6 | 5832 | 10 | 7365 | 4 | 31 |
| 30 | 3163 | | 5773 | | 7390 | | 30 |

| ′ | Logar. | Diff. pro 10 | Mesolog | Diff. pro 10 | Logar. | Diff. pro 10 | ′ |
|---|---|---|---|---|---|---|---|
| 30 | 43163 | 6 | 15773 | 10 | 27390 | 4 | 30 |
| 31 | 3129 | 6 | 5714 | 10 | 7415 | 4 | 29 |
| 32 | 3095 | 6 | 5655 | 10 | 7440 | 4 | 28 |
| 33 | 3061 | 6 | 5596 | 10 | 7465 | 4 | 27 |
| 34 | 43027 | 6 | 15537 | 10 | 27490 | 4 | 26 |
| 35 | 2993 | 6 | 5478 | 10 | 7515 | 4 | 25 |
| 36 | 2959 | 6 | 5420 | 10 | 7540 | 4 | 24 |
| 37 | 42925 | 6 | 15361 | 10 | 27565 | 4 | 23 |
| 38 | 2891 | 6 | 5302 | 10 | 7589 | 4 | 22 |
| 39 | 2857 | 6 | 5243 | 10 | 7614 | 4 | 21 |
| 40 | 42824 | 6 | 15184 | 10 | 27639 | 4 | 20 |
| 41 | 2790 | 6 | 5125 | 10 | 7664 | 4 | 19 |
| 42 | 2756 | 6 | 5067 | 10 | 7689 | 4 | 18 |
| 43 | 42722 | 6 | 15008 | 10 | 27714 | 4 | 17 |
| 44 | 2688 | 6 | 4949 | 10 | 7739 | 4 | 16 |
| 45 | 2655 | 6 | 4890 | 10 | 7765 | 4 | 15 |
| 46 | 42621 | 6 | 14831 | 10 | 27790 | 4 | 14 |
| 47 | 2587 | 6 | 4772 | 10 | 7815 | 4 | 13 |
| 48 | 2553 | 6 | 4714 | 10 | 7840 | 4 | 12 |
| 49 | 42520 | 6 | 14655 | 10 | 27865 | 4 | 11 |
| 50 | 2486 | 6 | 4596 | 10 | 7890 | 4 | 10 |
| 51 | 2452 | 6 | 4537 | 10 | 7915 | 4 | 9 |
| 52 | 42419 | 6 | 14478 | 10 | 27940 | 4 | 8 |
| 53 | 2385 | 6 | 4420 | 10 | 7966 | 4 | 7 |
| 54 | 2352 | 6 | 4361 | 10 | 7991 | 4 | 6 |
| 55 | 42318 | 6 | 14302 | 10 | 28016 | 4 | 5 |
| 56 | 2284 | 6 | 4243 | 10 | 8041 | 4 | 4 |
| 57 | 2251 | 6 | 4184 | 10 | 8066 | 4 | 3 |
| 58 | 42217 | 6 | 14126 | 10 | 28092 | 4 | 2 |
| 59 | 2184 | 6 | 4067 | 10 | 8117 | 4 | 1 |
| 60 | 2150 | | 4008 | | 8142 | | 0 |

| ′ | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff. pro 10 | ′ |
|---|---|---|---|---|---|---|---|
| 0 | 42150 | 6 | 14008 | 10 | 28142 | 4 | 60 |
| 1 | 2117 | 6 | 13949 | 10 | 8167 | 4 | 59 |
| 2 | 2083 | 6 | 3891 | 10 | 8193 | 4 | 58 |
| 3 | 2050 | 6 | 3832 | 10 | 82 8 | 4 | 57 |
| 4 | 42017 | 6 | 13773 | 10 | 28243 | 4 | 56 |
| 5 | 1983 | 6 | 3714 | 10 | 8269 | 4 | 55 |
| 6 | 1950 | 6 | 3656 | 10 | 8294 | 4 | 54 |
| 7 | 41917 | 6 | 13597 | 10 | 28320 | 4 | 53 |
| 8 | 1883 | 6 | 3538 | 10 | 8345 | 4 | 52 |
| 9 | 1850 | 6 | 3480 | 10 | 837 | 4 | 51 |
| 10 | 41817 | 6 | 13421 | 10 | 28396 | 4 | 50 |
| 11 | 1783 | 6 | 3362 | 10 | 8421 | 4 | 49 |
| 12 | 1750 | 6 | 3304 | 10 | 8447 | 4 | 48 |
| 13 | 41717 | 6 | 13245 | 10 | 28472 | 4 | 47 |
| 14 | 1684 | 6 | 3186 | 10 | 8498 | 4 | 46 |
| 15 | 1651 | 6 | 3128 | 10 | 8523 | 4 | 45 |
| 16 | 41617 | 6 | 13068 | 10 | 28549 | 4 | 44 |
| 17 | 1584 | 6 | 3010 | 10 | 8574 | 4 | 43 |
| 18 | 1551 | 6 | 2951 | 10 | 8600 | 4 | 42 |
| 19 | 41518 | 6 | 12893 | 10 | 28625 | 4 | 41 |
| 20 | 1485 | 6 | 2834 | 10 | 8651 | 4 | 40 |
| 21 | 1452 | 6 | 2776 | 10 | 8676 | 4 | 39 |
| 22 | 41419 | 6 | 12717 | 10 | 28702 | 4 | 38 |
| 23 | 1386 | 6 | 2658 | 10 | 8728 | 4 | 37 |
| 24 | 1353 | 6 | 2600 | 10 | 8753 | 4 | 36 |
| 25 | 41320 | 6 | 12541 | 10 | 28779 | 4 | 35 |
| 26 | 1287 | 6 | 2482 | 10 | 8805 | 4 | 34 |
| 27 | 1254 | 6 | 2424 | 10 | 8830 | 4 | 33 |
| 28 | 41221 | 6 | 12365 | 10 | 28856 | 4 | 32 |
| 29 | 1188 | 6 | 2306 | 10 | 8882 | 4 | 31 |
| 30 | 1155 | | 2248 | | 8907 | | 30 |

| ′ | Logar. | Diffi pro 10 | Mesolog. | Diffi pro 10 | Logar. | Diffi pro 10 | ′ |
|---|---|---|---|---|---|---|---|
| 30 | 41155 | 6 | 12248 | 10 | 28907 | 4 | 30 |
| 31 | 1122 | 5 | 2189 | 10 | 8933 | 4 | 29 |
| 32 | 1090 | 5 | 2131 | 10 | 8959 | 4 | 28 |
| 33 | 1057 | 5 | 2072 | 10 | 8985 | 4 | 27 |
| 34 | 41024 | 5 | 12013 | 10 | 29011 | 4 | 26 |
| 35 | 0991 | 5 | 1955 | 10 | 9036 | 4 | 25 |
| 36 | 0958 | 5 | 1896 | 10 | 9062 | 4 | 24 |
| 37 | 4092 | 5 | 11838 | 10 | 29088 | 4 | 23 |
| 38 | 0893 | 5 | 1779 | 10 | 9114 | 4 | 22 |
| 39 | 0860 | 5 | 1720 | 10 | 9140 | 4 | 21 |
| 40 | 40827 | 5 | 11662 | 10 | 29166 | 4 | 20 |
| 41 | 0795 | 5 | 1603 | 10 | 9191 | 4 | 19 |
| 42 | 0762 | 5 | 1545 | 10 | 9217 | 4 | 18 |
| 43 | 40729 | 5 | 11486 | 10 | 29243 | 4 | 17 |
| 44 | 0697 | 5 | 1428 | 10 | 9269 | 4 | 16 |
| 45 | 0664 | 5 | 1369 | 10 | 9295 | 4 | 15 |
| 46 | 40632 | 5 | 11311 | 10 | 29321 | 4 | 14 |
| 47 | 0599 | 5 | 1252 | 10 | 9347 | 4 | 13 |
| 48 | 0567 | 5 | 1193 | 10 | 9373 | 4 | 12 |
| 49 | 40534 | 5 | 11135 | 10 | 29399 | 4 | 11 |
| 50 | 0502 | 5 | 1076 | 10 | 9425 | 4 | 10 |
| 51 | 0469 | 5 | 1018 | 10 | 9451 | 4 | 9 |
| 52 | 40437 | 5 | 10959 | 10 | 29477 | 4 | 8 |
| 53 | 0404 | 5 | 0901 | 10 | 9503 | 4 | 7 |
| 54 | 0372 | 5 | 0842 | 10 | 9529 | 4 | 6 |
| 55 | 40339 | 5 | 10784 | 10 | 29556 | 4 | 5 |
| 56 | 0307 | 5 | 0725 | 10 | 9582 | 4 | 4 |
| 57 | 0275 | 5 | 0667 | 10 | 9608 | 4 | 3 |
| 58 | 40242 | 5 | 10608 | 10 | 29634 | 4 | 2 |
| 59 | 0210 | 5 | 0550 | 10 | 9660 | 4 | 1 |
| 60 | 0178 | 5 | 0491 | 10 | 9686 | 4 | 0 |

| / | Logar. | Diff. pro 10 | Meso log | Diff. pro 10 | Logar. | Diff. pro 10 | / |
|---|---|---|---|---|---|---|---|
| 0 | 40178 | 5 | 10491 | 10 | 29686 | 4 | 60 |
| 1 | 0145 | 5 | 10433 | 10 | 9713 | 4 | 59 |
| 2 | 0113 | 5 | 0374 | 10 | 9739 | 4 | 58 |
| 3 | 0081 | 5 | 0316 | 10 | 9765 | 4 | 57 |
| 4 | 40048 | 5 | 10257 | 10 | 29791 | 4 | 56 |
| 5 | 40016 | 5 | 0199 | 10 | 9818 | 4 | 55 |
| 6 | 39984 | 5 | 0140 | 10 | 9844 | 4 | 54 |
| 7 | 39952 | 5 | 10082 | 10 | 29870 | 4 | 53 |
| 8 | 9920 | 5 | 10023 | 10 | 9896 | 4 | 52 |
| 9 | 9888 | 5 | 9965 | 10 | 9923 | 4 | 51 |
| 10 | 39855 | 5 | 9906 | 10 | 29949 | 4 | 50 |
| 11 | 9823 | 5 | 9848 | 10 | 9975 | 4 | 49 |
| 12 | 9791 | 5 | 9789 | 10 | 30002 | 4 | 48 |
| 13 | 39759 | 5 | 9731 | 10 | 30028 | 4 | 47 |
| 14 | 9727 | 5 | 9672 | 10 | 0055 | 4 | 46 |
| 15 | 9695 | 5 | 9614 | 10 | 0081 | 4 | 45 |
| 16 | 39663 | 5 | 9556 | 10 | 30107 | 4 | 44 |
| 17 | 9631 | 5 | 9497 | 10 | 0134 | 4 | 43 |
| 18 | 9599 | 5 | 9439 | 10 | 0160 | 4 | 42 |
| 19 | 39567 | 5 | 9380 | 10 | 30187 | 4 | 41 |
| 20 | 9535 | 5 | 9322 | 10 | 0213 | 4 | 40 |
| 21 | 9503 | 5 | 9263 | 10 | 0240 | 4 | 39 |
| 22 | 39471 | 5 | 9205 | 10 | 30266 | 4 | 38 |
| 23 | 9439 | 5 | 9147 | 10 | 0293 | 4 | 37 |
| 24 | 9408 | 5 | 9088 | 10 | 0319 | 4 | 36 |
| 25 | 39376 | 5 | 9030 | 10 | 30346 | 4 | 35 |
| 26 | 9344 | 5 | 8971 | 10 | 0373 | 4 | 34 |
| 27 | 9312 | 5 | 8913 | 10 | 0399 | 4 | 33 |
| 28 | 39280 | 5 | 8854 | 10 | 30426 | 4 | 32 |
| 29 | 9249 | 5 | 8796 | 10 | 0452 | 4 | 31 |
| 30 | 9217 | 5 | 8738 | | 0479 | | 30 |

| / | Logar. | Diff. I pro 10 | Mesolog | Diff. I pro 10 | Logar | Diff. II pro 10 | / |
|---|---|---|---|---|---|---|---|
| 30 | 39217 | | 8738 | | 30479 | | 30 |
| | | 5 | | 10 | | 4 | |
| 31 | 9185 | | 8679 | | 0506 | | 29 |
| | | 5 | | 10 | | 4 | |
| 32 | 9153 | | 8621 | | 0532 | | 28 |
| | | 5 | | 10 | | 4 | |
| 33 | 9122 | | 8563 | | 0559 | | 27 |
| | | 5 | | 10 | | 4 | |
| 34 | 39090 | | 8504 | | 30586 | | 26 |
| | | 5 | | 10 | | 4 | |
| 35 | 9058 | | 8446 | | 0613 | | 25 |
| | | 5 | | 10 | | 4 | |
| 36 | 9027 | | 8387 | | 0639 | | 24 |
| | | 5 | | 10 | | 4 | |
| 37 | 38995 | | 8329 | | 30666 | | 23 |
| | | 5 | | 10 | | 4 | |
| 38 | 8963 | | 8271 | | 0693 | | 22 |
| | | 5 | | 10 | | 4 | |
| 39 | 8932 | | 8212 | | 0720 | | 21 |
| | | 5 | | 10 | | 4 | |
| 40 | 38900 | | 8154 | | 30746 | | 20 |
| | | 5 | | 10 | | 4 | |
| 41 | 8869 | | 8096 | | 0773 | | 19 |
| | | 5 | | 10 | | 4 | |
| 42 | 8837 | | 8037 | | 0800 | | 18 |
| | | 5 | | 10 | | 4 | |
| 43 | 38806 | | 7979 | | 30827 | | 17 |
| | | 5 | | 10 | | 4 | |
| 44 | 8774 | | 7920 | | 0854 | | 16 |
| | | 5 | | 10 | | 4 | |
| 45 | 8743 | | 7862 | | 0881 | | 15 |
| | | 5 | | 10 | | 4 | |
| 46 | 38711 | | 7804 | | 30908 | | 14 |
| | | 5 | | 10 | | 4 | |
| 47 | 8680 | | 7745 | | 0934 | | 13 |
| | | 5 | | 10 | | 4 | |
| 48 | 8648 | | 7687 | | 0961 | | 12 |
| | | 5 | | 10 | | 4 | |
| 49 | 38617 | | 7629 | | 30988 | | 11 |
| | | 5 | | 10 | | 4 | |
| 50 | 8586 | | 7570 | | 1015 | | 10 |
| | | 5 | | 10 | | 4 | |
| 51 | 8554 | | 7512 | | 1042 | | 9 |
| | | 5 | | 10 | | 4 | |
| 52 | 38523 | | 7454 | | 31069 | | 8 |
| | | 5 | | 10 | | 4 | |
| 53 | 8492 | | 7396 | | 1096 | | 7 |
| | | 5 | | 10 | | 4 | |
| 54 | 8460 | | 7337 | | 1123 | | 6 |
| | | 5 | | 10 | | 4 | |
| 55 | 38429 | | 7279 | | 31150 | | 5 |
| | | 5 | | 10 | | 4 | |
| 56 | 8398 | | 7220 | | 1177 | | 4 |
| | | 5 | | 10 | | 4 | |
| 57 | 8366 | | 7162 | | 1204 | | 3 |
| | | 5 | | 10 | | 4 | |
| 58 | 38335 | | 7104 | | 31232 | | 2 |
| | | 5 | | 10 | | 4 | |
| 59 | 8304 | | 7045 | | 1259 | | 1 |
| | | 5 | | 10 | | 4 | |
| 60 | 8273 | | 6987 | | 1286 | | 0 |

| / | Logar. | Diff. I pro 10 | Meſolog. | Diff. II pro 10 | Logar. | Diff. II pro 10 | / |
|---|---|---|---|---|---|---|---|
| 0 | 38273 | 5 | 6987 | 10 | 31286 | 5 | 60 |
| 1 | 8242 | 5 | 6929 | 10 | 1313 | 5 | 59 |
| 2 | 8210 | 5 | 6870 | 10 | 1340 | 5 | 58 |
| 3 | 8179 | 5 | 6812 | 10 | 1367 | 5 | 57 |
| 4 | 38148 | 5 | 6754 | 10 | 31394 | 5 | 56 |
| 5 | 8117 | 5 | 6695 | 10 | 1422 | 5 | 55 |
| 6 | 8086 | 5 | 6637 | 10 | 1449 | 5 | 54 |
| 7 | 38055 | 5 | 6579 | 10 | 31476 | 5 | 53 |
| 8 | 8024 | 5 | 6521 | 10 | 1503 | 5 | 52 |
| 9 | 7993 | 5 | 6462 | 10 | 1531 | 5 | 51 |
| 10 | 37962 | 5 | 6404 | 10 | 31558 | 5 | 50 |
| 11 | 7931 | 5 | 6346 | 10 | 1585 | 5 | 49 |
| 12 | 7900 | 5 | 6287 | 10 | 1612 | 5 | 48 |
| 13 | 37869 | 5 | 6229 | 10 | 31640 | 5 | 47 |
| 14 | 7838 | 5 | 6171 | 10 | 1667 | 5 | 46 |
| 15 | 7807 | 5 | 6112 | 10 | 1694 | 5 | 45 |
| 16 | 37776 | 5 | 6054 | 10 | 31722 | 5 | 44 |
| 17 | 7745 | 5 | 5996 | 10 | 1749 | 5 | 43 |
| 18 | 7714 | 5 | 5938 | 10 | 1777 | 5 | 42 |
| 19 | 37683 | 5 | 5879 | 10 | 31804 | 5 | 41 |
| 20 | 7652 | 5 | 5821 | 10 | 1831 | 5 | 40 |
| 21 | 7622 | 5 | 5763 | 10 | 1859 | 5 | 39 |
| 22 | 37591 | 5 | 5705 | 10 | 31886 | 5 | 38 |
| 23 | 7560 | 5 | 5646 | 10 | 1914 | 5 | 37 |
| 24 | 7529 | 5 | 5588 | 10 | 1941 | 5 | 36 |
| 25 | 37499 | 5 | 5530 | 10 | 31969 | 5 | 35 |
| 26 | 7468 | 5 | 5471 | 10 | 1996 | 5 | 34 |
| 27 | 7437 | 5 | 5413 | 10 | 2024 | 5 | 33 |
| 28 | 37406 | 5 | 5355 | 10 | 32052 | 5 | 32 |
| 29 | 7376 | 5 | 5297 | 10 | 2079 | 5 | 31 |
| 30 | 7345 | 5 | 5238 | 10 | 2107 | 5 | 30 |

| ′ | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff. pro 10 | ′ |
|---|---|---|---|---|---|---|---|
| 30 | 37345 | 5 | 5238 | 10 | 32107 | 5 | 30 |
| 31 | 7314 | 5 | 5180 | 10 | 2134 | 5 | 29 |
| 32 | 7284 | 5 | 5122 | 10 | 2162 | 5 | 28 |
| 33 | 7253 | 5 | 5064 | 10 | 2190 | 5 | 27 |
| 34 | 37223 | 5 | 5005 | 10 | 32217 | 5 | 26 |
| 35 | 7192 | 5 | 4947 | 10 | 2245 | 5 | 25 |
| 36 | 7161 | 5 | 4889 | 10 | 2273 | 5 | 24 |
| 37 | 37131 | 5 | 4831 | 10 | 32300 | 5 | 23 |
| 38 | 7100 | 5 | 4772 | 10 | 2328 | 5 | 22 |
| 39 | 7070 | 5 | 4714 | 10 | 2356 | 5 | 21 |
| 40 | 37039 | 5 | 4656 | 10 | 32384 | 5 | 20 |
| 41 | 7009 | 5 | 4598 | 10 | 2411 | 5 | 19 |
| 42 | 6979 | 5 | 4539 | 10 | 2439 | 5 | 18 |
| 43 | 36948 | 5 | 4481 | 10 | 32467 | 5 | 17 |
| 44 | 6918 | 5 | 4423 | 10 | 2495 | 5 | 16 |
| 45 | 6887 | 5 | 4365 | 10 | 2523 | 5 | 15 |
| 46 | 36857 | 5 | 4306 | 10 | 32550 | 5 | 14 |
| 47 | 6827 | 5 | 4248 | 10 | 2578 | 5 | 13 |
| 48 | 6796 | 5 | 4190 | 10 | 2606 | 5 | 12 |
| 49 | 36766 | 5 | 4132 | 10 | 32634 | 5 | 11 |
| 50 | 6736 | 5 | 4074 | 10 | 2662 | 5 | 10 |
| 51 | 6705 | 5 | 4015 | 10 | 2690 | 5 | 9 |
| 52 | 36675 | 5 | 3957 | 10 | 32718 | 5 | 8 |
| 53 | 6645 | 5 | 3899 | 10 | 2746 | 5 | 7 |
| 54 | 6615 | 5 | 3841 | 10 | 2774 | 5 | 6 |
| 55 | 36584 | 5 | 3782 | 10 | 32802 | 5 | 5 |
| 56 | 6554 | 5 | 3724 | 10 | 2830 | 5 | 4 |
| 57 | 6524 | 5 | 3666 | 10 | 2858 | 5 | 3 |
| 58 | 36494 | 5 | 3608 | 10 | 32886 | 5 | 2 |
| 59 | 6464 | 5 | 3550 | 10 | 2914 | 5 | 1 |
| 60 | 6433 | 5 | 3491 | 10 | 2942 | 5 | 0 |

| / | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff. pro 10 | / |
|---|---|---|---|---|---|---|---|
| 0 | 36433 | 5 | 3491 | 10 | 31942 | 5 | 60 |
| 1 | 6403 | 5 | 3433 | 10 | 2970 | 5 | 59 |
| 2 | 6373 | 5 | 3375 | 10 | 2998 | 5 | 58 |
| 3 | 6343 | 5 | 3317 | 10 | 3026 | 5 | 57 |
| 4 | 36313 | 5 | 3258 | 10 | 33055 | 5 | 56 |
| 5 | 6283 | 5 | 3200 | 10 | 3083 | 5 | 55 |
| 6 | 6253 | 5 | 3142 | 10 | 3111 | 5 | 54 |
| 7 | 36223 | 5 | 3084 | 10 | 33139 | 5 | 53 |
| 8 | 6193 | 5 | 3026 | 10 | 3167 | 5 | 52 |
| 9 | 6163 | 5 | 2967 | 10 | 3196 | 5 | 51 |
| 10 | 36133 | 5 | 2909 | 10 | 33224 | 5 | 50 |
| 11 | 6103 | 5 | 2851 | 10 | 3252 | 5 | 49 |
| 12 | 6073 | 5 | 2793 | 10 | 3280 | 5 | 48 |
| 13 | 36043 | 5 | 2735 | 10 | 33309 | 5 | 47 |
| 14 | 6013 | 5 | 2676 | 10 | 3337 | 5 | 46 |
| 15 | 5984 | 5 | 2619 | 10 | 3365 | 5 | 45 |
| 16 | 35954 | 5 | 2560 | 10 | 33394 | 5 | 44 |
| 17 | 5924 | 5 | 2502 | 10 | 3422 | 5 | 43 |
| 18 | 5894 | 5 | 2444 | 10 | 3450 | 5 | 42 |
| 19 | 35864 | 5 | 2385 | 10 | 33479 | 5 | 41 |
| 20 | 5834 | 5 | 2327 | 10 | 3507 | 5 | 40 |
| 21 | 5805 | 5 | 2269 | 10 | 3536 | 5 | 39 |
| 22 | 35775 | 5 | 2211 | 10 | 33564 | 5 | 38 |
| 23 | 5745 | 5 | 2153 | 10 | 3593 | 5 | 37 |
| 24 | 5716 | 5 | 2095 | 10 | 3621 | 5 | 36 |
| 25 | 35686 | 5 | 2036 | 10 | 33650 | 5 | 35 |
| 26 | 5656 | 5 | 1978 | 10 | 3678 | 5 | 34 |
| 27 | 5627 | 5 | 1920 | 10 | 3707 | 5 | 33 |
| 28 | 35597 | 5 | 1862 | 10 | 33735 | 5 | 32 |
| 29 | 5567 | 5 | 1804 | 10 | 3764 | 5 | 31 |
| 30 | 5538 | | 1745 | | 3792 | | 30 |

| / | Logar. | Diff. pro 10 | Mesolog. | Diff. pro 10 | Logar. | Diff. pro 10 | / |
|---|---|---|---|---|---|---|---|
| 30 | 35538 | 5 | 1745 | 10 | 33792 | 5 | 30 |
| 31 | 5508 | 5 | 1687 | 10 | 3821 | 5 | 29 |
| 32 | 5478 | 5 | 1629 | 10 | 3849 | 5 | 28 |
| 33 | 5449 | 5 | 1571 | 10 | 3878 | 5 | 27 |
| 34 | 35419 | 5 | 1513 | 10 | 33907 | 5 | 26 |
| 35 | 5390 | 5 | 1455 | 10 | 3935 | 5 | 25 |
| 36 | 5360 | 5 | 1396 | 10 | 3964 | 5 | 24 |
| 37 | 25331 | 5 | 1338 | 10 | 33993 | 5 | 23 |
| 38 | 5301 | 5 | 1280 | 10 | 4021 | 5 | 22 |
| 39 | 5272 | 5 | 1222 | 10 | 4050 | 5 | 21 |
| 40 | 35242 | 5 | 1164 | 10 | 34079 | 5 | 20 |
| 41 | 5213 | 5 | 1105 | 10 | 4108 | 5 | 19 |
| 42 | 5184 | 5 | 1047 | 10 | 4136 | 5 | 18 |
| 43 | 35154 | 5 | 989 | 10 | 34165 | 5 | 17 |
| 44 | 5125 | 5 | 931 | 10 | 4194 | 5 | 16 |
| 45 | 5096 | 5 | 873 | 10 | 4223 | 5 | 15 |
| 46 | 35066 | 5 | 814 | 10 | 34252 | 5 | 14 |
| 47 | 5037 | 5 | 756 | 10 | 4281 | 5 | 13 |
| 48 | 5008 | 5 | 698 | 10 | 4309 | 5 | 12 |
| 49 | 34978 | 5 | 640 | 10 | 34338 | 5 | 11 |
| 50 | 4949 | 5 | 582 | 10 | 4367 | 5 | 10 |
| 51 | 4920 | 5 | 524 | 10 | 4396 | 5 | 9 |
| 52 | 34891 | 5 | 465 | 10 | 34425 | 5 | 8 |
| 53 | 4861 | 5 | 407 | 10 | 4454 | 5 | 7 |
| 54 | 4832 | 5 | 349 | 10 | 4483 | 5 | 6 |
| 55 | 34803 | 5 | 291 | 10 | 34512 | 5 | 5 |
| 56 | 4774 | 5 | 233 | 10 | 4541 | 5 | 4 |
| 57 | 4745 | 5 | 175 | 10 | 4570 | 5 | 3 |
| 58 | 34716 | 5 | 116 | 10 | 34599 | 5 | 2 |
| 59 | 4686 | 5 | 58 | 10 | 4628 | 5 | 1 |
| 60 | 4657 | | 0 | | 4657 | | 0 |

FINIS
LOGARITHMORUM
QVADRANTIS.

# TABULA LOGARITHMICA TERTIA

Continens

# LOGARITHMOS

Primi gradus ad singula minuta Secunda supputatos

à

## PETRO CRÜGERO

ad partes Radii 100000.

*In calce paginarum subjectæ sunt particulæ à Logarithmis detrahendæ, ut habeantur eorundem Secundorum Meſologarithmi.*

| // | ′ 0 | ′ 1 | ′ 2 | ′ 3 | ′ 4 | ′ 5 |
|---|---|---|---|---|---|---|
| 0 | Infinitú | 814257 | 744942 | 704396 | 675628 | 653313 |
| 1 | 1223692 | 812604 | 4112 | 3842 | 5212 | 2980 |
| 2 | 1154377 | 810978 | 3290 | 3291 | 4798 | 2649 |
| 3 | 1113830 | 809378 | 2473 | 2743 | 4385 | 2318 |
| 4 | 1085062 | 807803 | 741664 | 702198 | 673975 | 651989 |
| 5 | 1062748 | 6253 | 0860 | 1656 | 3566 | 1660 |
| 6 | 1044516 | 4726 | 740064 | 1117 | 3158 | 1333 |
| 7 | 1029101 | 803222 | 739273 | 700581 | 672753 | 651007 |
| 8 | 1015747 | 1741 | 8489 | 700047 | 2349 | 0681 |
| 9 | 1003969 | 800281 | 7711 | 699517 | 1946 | 0357 |
| 10 | 993433 | 798842 | 736938 | 698989 | 671546 | 650034 |
| 11 | 983902 | 7424 | 6172 | 8464 | 1146 | 649712 |
| 12 | 975201 | 6025 | 5412 | 7942 | 0749 | 649391 |
| 13 | 967197 | 794646 | 734657 | 697423 | 670353 | 649071 |
| 14 | 959786 | 3285 | 3908 | 6906 | 669958 | 8752 |
| 15 | 652887 | 1943 | 3164 | 6392 | 669565 | 8434 |
| 16 | 946433 | 790618 | 732426 | 695880 | 669174 | 648117 |
| 17 | 940370 | 789311 | 1694 | 5371 | 8784 | 7801 |
| 18 | 934654 | 8021 | 0966 | 4865 | 8396 | 7486 |
| 19 | 929248 | 786747 | 730244 | 694361 | 668009 | 647172 |
| 20 | 924118 | 5489 | 729527 | 3860 | 7623 | 6859 |
| 21 | 919239 | 4247 | 728816 | 3361 | 7239 | 6547 |
| 22 | 914587 | 783020 | 728109 | 692865 | 666857 | 646236 |
| 23 | 910142 | 1808 | 7472 | 2371 | 6476 | 5926 |
| 24 | 905886 | 780610 | 6710 | 1879 | 6096 | 5617 |
| 25 | 901804 | 779426 | 726018 | 691390 | 665718 | 645309 |
| 26 | 897882 | 8257 | 5331 | 0904 | 5342 | 5001 |
| 27 | 894108 | 7101 | 4648 | 690420 | 4967 | 4695 |
| 28 | 890471 | 775958 | 723970 | 689938 | 664593 | 644390 |
| 29 | 886962 | 4828 | 3297 | 9458 | 4220 | 4086 |
| 30 | 883572 | 3711 | 2628 | 8981 | 3849 | 3782 |

| ′ | ′ 0 | ′ 1 | ′ 2 | ′ 3 | ′ 4 | ′ 5 |
|---|---|---|---|---|---|---|
| 30 | 883572 | 773711 | 722628 | 688981 | 663849 | 643782 |
| 31 | 880293 | 2606 | 1964 | 8506 | 3480 | 3480 |
| 32 | 877118 | 1513 | 1303 | 8033 | 3111 | 3178 |
| 33 | 874041 | 770432 | 720648 | 7562 | 2744 | 2877 |
| 34 | 871056 | 769362 | 719996 | 687094 | 662379 | 642577 |
| 35 | 868157 | 8304 | 9349 | 6628 | 2015 | 2278 |
| 36 | 865340 | 7257 | 8706 | 6164 | 1652 | 1980 |
| 37 | 862600 | 766221 | 718067 | 685702 | 661290 | 641682 |
| 38 | 859933 | 5195 | 7432 | 5242 | 0930 | 1387 |
| 39 | 857335 | 4180 | 6801 | 4785 | 0571 | 1092 |
| 40 | 854804 | 763175 | 716174 | 684329 | 660213 | 640797 |
| 41 | 852334 | 2179 | 5551 | 3875 | 659856 | 0503 |
| 42 | 849925 | 1194 | 4932 | 3424 | 659501 | 640210 |
| 43 | 847572 | 760218 | 714317 | 682975 | 659147 | 639919 |
| 44 | 845273 | 759252 | 3705 | 2527 | 8794 | 9627 |
| 45 | 843025 | 758295 | 3097 | 2082 | 8443 | 9337 |
| 46 | 840827 | 757347 | 712493 | 681638 | 658092 | 639048 |
| 47 | 838677 | 6408 | 1892 | 1197 | 7743 | 8759 |
| 48 | 836571 | 5478 | 1295 | 0757 | 7395 | 8472 |
| 49 | 834510 | 754557 | 710702 | 680320 | 657049 | 638185 |
| 50 | 832489 | 3644 | 710112 | 679884 | 6704 | 7898 |
| 51 | 830509 | 2739 | 709525 | 679450 | 6359 | 7613 |
| 52 | 828567 | 751842 | 708942 | 679018 | 656016 | 637328 |
| 53 | 826662 | 0953 | 8362 | 8588 | 5674 | 7045 |
| 54 | 824793 | 750072 | 7786 | 8160 | 5333 | 6762 |
| 55 | 822958 | 749198 | 707213 | 677733 | 654994 | 636480 |
| 56 | 821156 | 8333 | 6643 | 7308 | 4655 | 6199 |
| 57 | 819386 | 7474 | 6077 | 6886 | 4318 | 5918 |
| 58 | 817647 | 746623 | 705513 | 676465 | 653982 | 635638 |
| 59 | 815938 | 5779 | 4953 | 6045 | 3647 | 5360 |
| 60 | 814257 | 4942 | 4396 | 5628 | 3313 | 5081 |

logarithmorum nulla hic differentia.

| // | ′ 6 | ′ 7 | ′ 8 | ′ 9 | ′ 10 | ′ 11 |
|---|---|---|---|---|---|---|
| 0 | 635081 | 619666 | 606313 | 594535 | 583999 | 574468 |
| 1 | 4804 | 9428 | 6105 | 4350 | 3832 | 4316 |
| 2 | 4527 | 9191 | 5897 | 4165 | 3666 | 4165 |
| 3 | 4251 | 8954 | 5690 | 3981 | 3500 | 4014 |
| 4 | 633976 | 618718 | 605483 | 593797 | 583334 | 573863 |
| 5 | 3702 | 8483 | 5277 | 3613 | 3169 | 3713 |
| 6 | 3428 | 8248 | 5071 | 3430 | 3004 | 3563 |
| 7 | 633155 | 618013 | 604865 | 593247 | 582839 | 573413 |
| 8 | 2883 | 7779 | 4660 | 3064 | 2674 | 3263 |
| 9 | 2612 | 7546 | 4455 | 2882 | 2510 | 3113 |
| 10 | 632341 | 617313 | 604251 | 592700 | 582346 | 572964 |
| 11 | 2071 | 7081 | 4047 | 2518 | 2182 | 2815 |
| 12 | 1802 | 6849 | 3844 | 2337 | 2019 | 2666 |
| 13 | 631534 | 616618 | 603641 | 592156 | 581855 | 572517 |
| 14 | 1266 | 6387 | 3438 | 1975 | 1692 | 2369 |
| 15 | 0999 | 6157 | 3236 | 1795 | 1529 | 2220 |
| 16 | 630733 | 615928 | 603034 | 591615 | 581367 | 572072 |
| 17 | 0467 | 5699 | 2833 | 1435 | 1205 | 1925 |
| 18 | 630202 | 5470 | 2632 | 1256 | 1043 | 1777 |
| 19 | 629938 | 615242 | 602431 | 591077 | 580881 | 571630 |
| 20 | 9674 | 5014 | 2231 | 0898 | 0720 | 1482 |
| 21 | 9411 | 4787 | 2031 | 0719 | 0559 | 1335 |
| 22 | 629150 | 614560 | 601832 | 590541 | 580398 | 571189 |
| 23 | 8888 | 4335 | 1633 | 0364 | 0237 | 1042 |
| 24 | 8627 | 4109 | 1434 | 0186 | 580077 | 0896 |
| 25 | 628367 | 613884 | 601236 | 590009 | 579917 | 570750 |
| 26 | 8108 | 3660 | 1038 | 589832 | 9757 | 0604 |
| 27 | 7849 | 3436 | 0841 | 589656 | 9597 | 0458 |
| 28 | 627591 | 613212 | 600644 | 589480 | 579438 | 570313 |
| 29 | 7334 | 2989 | 0447 | 9304 | 9279 | 0168 |
| 30 | 7077 | 2767 | 0251 | 9128 | 9120 | 0032 |
| Pro Meso-log. subtr. | 0 | 0 | 1 | 1 | 1 | |

| // | ′ 6 | ′ 7 | ′ 8 | ′ 9 | ′ 10 | ′ 11 |
|---|---|---|---|---|---|---|
| 30 | 627077 | 612767 | 600251 | 589128 | 579120 | 570023 |
| 31 | 6827 | 2545 | 600055 | 8953 | 8961 | 569878 |
| 32 | 6565 | 2323 | 599859 | 8778 | 8803 | 9733 |
| 33 | 6310 | 2102 | 9664 | 8603 | 8645 | 9589 |
| 34 | 626056 | 611882 | 599469 | 588429 | 578487 | 569445 |
| 35 | 5803 | 1662 | 9275 | 8255 | 8329 | 9300 |
| 36 | 5550 | 1442 | 9081 | 8081 | 8172 | 9157 |
| 37 | 625298 | 611223 | 598887 | 587907 | 578015 | 569013 |
| 38 | 5046 | 1005 | 8694 | 7734 | 7858 | 8870 |
| 39 | 4795 | 0787 | 8501 | 7561 | 7701 | 8727 |
| 40 | 624545 | 610569 | 598309 | 587389 | 577545 | 568584 |
| 41 | 4295 | 0352 | 8117 | 7217 | 7389 | 8441 |
| 42 | 4046 | 610135 | 7925 | 7045 | 7233 | 8298 |
| 43 | 623798 | 609919 | 597733 | 586873 | 577077 | 568156 |
| 44 | 3550 | 9703 | 7542 | 6702 | 6922 | 8014 |
| 45 | 3303 | 9488 | 7352 | 6530 | 6767 | 7872 |
| 46 | 623056 | 609273 | 597162 | 586360 | 576612 | 567730 |
| 47 | 2810 | 9059 | 6972 | 6189 | 6457 | 7589 |
| 48 | 2565 | 8845 | 6782 | 6019 | 6303 | 7447 |
| 49 | 622320 | 608632 | 596593 | 585849 | 576148 | 567306 |
| 50 | 2076 | 8418 | 6404 | 5679 | 5994 | 7165 |
| 51 | 1832 | 8206 | 6215 | 5510 | 5841 | 7025 |
| 52 | 621589 | 607994 | 596027 | 585341 | 575687 | 566884 |
| 53 | 1347 | 7782 | 5839 | 5172 | 5534 | 6744 |
| 54 | 1105 | 7571 | 5652 | 5004 | 5381 | 6603 |
| 55 | 620864 | 607360 | 595465 | 584836 | 575228 | 566464 |
| 56 | 0623 | 7150 | 5278 | 4668 | 5076 | 6324 |
| 57 | 0383 | 6940 | 5092 | 4500 | 4923 | 6184 |
| 58 | 620144 | 606731 | 594906 | 584333 | 574771 | 566045 |
| 59 | 619905 | 6522 | 4720 | 4165 | 4619 | 5906 |
| 60 | 9666 | 6313 | 4535 | 3999 | 4468 | 5767 |
| Pro Meso-log. subtr. | 0 | 0 | 0 | 1 | 1 | K 1 |

| // | 12 | 13 | 14 | 15 | 16 | 17 |
|---|---|---|---|---|---|---|
| 0 | 565767 | 557762 | 550352 | 543452 | 536999 | 530936 |
| 1 | 5628 | 7634 | 0233 | 3341 | 6894 | 0838 |
| 2 | 5489 | 7506 | 550114 | 3230 | 6790 | 0740 |
| 3 | 5351 | 7378 | 549995 | 3119 | 6686 | 0642 |
| 4 | 565213 | 557251 | 549877 | 543009 | 536583 | 530545 |
| 5 | 5075 | 7123 | 9758 | 2898 | 6479 | 0447 |
| 6 | 4937 | 6996 | 9640 | 2788 | 6375 | 0350 |
| 7 | 564799 | 556869 | 549522 | 542678 | 536272 | 530252 |
| 8 | 4662 | 6742 | 9404 | 2567 | 6169 | 0155 |
| 9 | 4524 | 6615 | 9286 | 2457 | 6065 | 530058 |
| 10 | 564387 | 556488 | 549168 | 542347 | 535962 | 529961 |
| 11 | 4250 | 6362 | 9051 | 2238 | 5859 | 9863 |
| 12 | 4114 | 6236 | 8933 | 2128 | 5756 | 9766 |
| 13 | 563977 | 556109 | 548816 | 542018 | 535653 | 529670 |
| 14 | 3841 | 5983 | 8699 | 1909 | 5551 | 9573 |
| 15 | 3705 | 5857 | 8582 | 1799 | 5448 | 9476 |
| 16 | 563569 | 555732 | 548465 | 541690 | 535345 | 529380 |
| 17 | 3433 | 5606 | 8348 | 1581 | 5243 | 9283 |
| 18 | 3297 | 5481 | 8232 | 1472 | 5141 | 9187 |
| 19 | 563162 | 555356 | 548115 | 541363 | 535039 | 529091 |
| 20 | 3027 | 5231 | 7999 | 1254 | 4937 | 8994 |
| 21 | 2892 | 5106 | 7882 | 1146 | 4835 | 8898 |
| 22 | 562757 | 554981 | 547766 | 541037 | 534733 | 528802 |
| 23 | 2622 | 4856 | 7650 | 0929 | 4631 | 8706 |
| 24 | 2488 | 4732 | 7535 | 0821 | 4529 | 8610 |
| 25 | 562353 | 554608 | 547419 | 540712 | 534428 | 528515 |
| 26 | 2219 | 4483 | 7303 | 0604 | 4326 | 8419 |
| 27 | 2085 | 4359 | 7188 | 0497 | 4225 | 8323 |
| 28 | 561952 | 554236 | 547073 | 540389 | 534124 | 528228 |
| 29 | 1818 | 4112 | 6957 | 0281 | 4023 | 8133 |
| 30 | 1684 | 3988 | 6842 | 0173 | 3921 | 8037 |
| Pro Meso-log. sub. | 1 | 1 | 1 | 1 | 1 | 1 |

| // | 12 | 13 | 14 | 15 | 16 | 17 |
|---|---|---|---|---|---|---|
| 30 | 561684 | 553988 | 546842 | 540173 | 533921 | 528037 |
| 31 | 1551 | 3865 | 6728 | 540066 | 3820 | 7942 |
| 32 | 1418 | 3742 | 6613 | 539959 | 3720 | 7847 |
| 33 | 1285 | 3619 | 6498 | 539851 | 3619 | 7752 |
| 34 | 561152 | 553496 | 546384 | 539744 | 533518 | 527657 |
| 35 | 1020 | 3373 | 6269 | 9637 | 3418 | 7562 |
| 36 | 0888 | 3250 | 6155 | 9530 | 3317 | 7468 |
| 37 | 560755 | 553128 | 546041 | 539424 | 533217 | 527373 |
| 38 | 0623 | 3006 | 5927 | 9317 | 3117 | 7278 |
| 39 | 0492 | 2883 | 5813 | 9210 | 3017 | 7184 |
| 40 | 560360 | 552761 | 545700 | 539104 | 532916 | 527090 |
| 41 | 0228 | 2639 | 5586 | 8998 | 2816 | 6995 |
| 42 | 560097 | 2518 | 5473 | 8891 | 2716 | 6901 |
| 43 | 559966 | 552396 | 545359 | 538785 | 532617 | 526807 |
| 44 | 9835 | 2275 | 5246 | 8679 | 2517 | 6713 |
| 45 | 9704 | 2153 | 5133 | 8573 | 2418 | 6619 |
| 46 | 559573 | 552032 | 545020 | 538468 | 532318 | 526525 |
| 47 | 9443 | 1911 | 4907 | 8362 | 2219 | 6431 |
| 48 | 9313 | 1790 | 4795 | 8256 | 2120 | 6338 |
| 49 | 559183 | 551670 | 544682 | 538151 | 532020 | 526244 |
| 50 | 9053 | 1549 | 4570 | 8046 | 1921 | 6151 |
| 51 | 8923 | 1429 | 4457 | 7940 | 1822 | 6057 |
| 52 | 558793 | 551308 | 544345 | 537835 | 531723 | 525964 |
| 53 | 8664 | 1188 | 4233 | 7730 | 1625 | 5871 |
| 54 | 8535 | 1068 | 4121 | 7625 | 1526 | 5777 |
| 55 | 558405 | 550949 | 544009 | 537521 | 531427 | 525684 |
| 56 | 8276 | 0829 | 3898 | 7416 | 1329 | 5591 |
| 57 | 8148 | 0709 | 3786 | 7312 | 1231 | 5498 |
| 58 | 558019 | 550590 | 543675 | 537207 | 531132 | 525406 |
| 59 | 7891 | 0471 | 3564 | 7103 | 1034 | 5313 |
| 60 | 7762 | 0352 | 3452 | 6999 | 0936 | 5220 |
| Pro Meso-log. subtr. | 1 | 1 | 1 | 1 | 1 | 1 |

| | ′ 18 | ′ 19 | ′ 20 | ′ 21 | ′ 22 | ′ 23 |
|---|---|---|---|---|---|---|
| ″ | | | | | | |
| 0 | 525220 | 519814 | 514684 | 509805 | 505153 | 500708 |
| 1 | 5128 | 9726 | 4601 | 9726 | 5078 | 0636 |
| 2 | 5035 | 9638 | 4518 | 9647 | 5002 | 0564 |
| 3 | 4943 | 9551 | 4435 | 9568 | 4926 | 0491 |
| 4 | 524851 | 519463 | 514352 | 509488 | 504851 | 500419 |
| 5 | 4758 | 9376 | 4269 | 9409 | 4775 | 0347 |
| 6 | 4666 | 9289 | 4186 | 9330 | 4700 | 0275 |
| 7 | 524574 | 519201 | 514103 | 509251 | 504625 | 500202 |
| 8 | 4482 | 9114 | 4020 | 9172 | 4549 | 0130 |
| 9 | 4391 | 9027 | 3937 | 9094 | 4474 | 500058 |
| 10 | 524299 | 518940 | 513855 | 509015 | 504399 | 499986 |
| 11 | 4207 | 8853 | 3772 | 8936 | 4324 | 9914 |
| 12 | 4115 | 8767 | 3689 | 8857 | 4249 | 9843 |
| 13 | 524024 | 518680 | 513607 | 508779 | 504173 | 499771 |
| 14 | 3932 | 8593 | 3525 | 8700 | 4098 | 9699 |
| 15 | 3841 | 8506 | 3442 | 8622 | 4023 | 9627 |
| 16 | 523750 | 518420 | 513360 | 508543 | 503949 | 499556 |
| 17 | 3659 | 8333 | 3278 | 8465 | 3874 | 9484 |
| 18 | 3568 | 8247 | 3196 | 8387 | 3799 | 9412 |
| 19 | 523476 | 518161 | 513114 | 508309 | 503724 | 499341 |
| 20 | 3385 | 8074 | 3032 | 8231 | 3650 | 9270 |
| 21 | 3295 | 7988 | 2950 | 8153 | 3575 | 9198 |
| 22 | 523204 | 517902 | 512868 | 508074 | 503501 | 499127 |
| 23 | 3113 | 7816 | 2786 | 7996 | 3426 | 9055 |
| 24 | 3022 | 7730 | 2704 | 7919 | 3352 | 8984 |
| 25 | 522932 | 517644 | 512622 | 507841 | 503277 | 498913 |
| 26 | 2841 | 7559 | 2541 | 7763 | 3203 | 8842 |
| 27 | 2751 | 7473 | 2459 | 7685 | 3129 | 8771 |
| 28 | 522661 | 517387 | 512378 | 507607 | 503054 | 498700 |
| 29 | 2571 | 7302 | 2297 | 7530 | 2980 | 8630 |
| 30 | 2480 | 7216 | 2215 | 7452 | 2906 | 8558 |
| Pro Meso-log. subtr. | 1 | 1 | 2 | 2 | 2 | 2 |

| // | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|
| 30 | 522480 | 517216 | 512215 | 507452 | 502906 | 498558 |
| 31 | 2390 | 7131 | 2134 | 7375 | 2832 | 8487 |
| 32 | 2300 | 7045 | 2053 | 7298 | 2758 | 8416 |
| 33 | 2211 | 6960 | 1972 | 7220 | 2684 | 8345 |
| 34 | 522121 | 516875 | 511890 | 507143 | 502610 | 498274 |
| 35 | 2031 | 6790 | 1809 | 7065 | 2537 | 8204 |
| 36 | 1941 | 6705 | 1729 | 6988 | 2463 | 8133 |
| 37 | 521852 | 516620 | 511648 | 506911 | 502389 | 498063 |
| 38 | 1762 | 6535 | 1567 | 6834 | 2315 | 7992 |
| 39 | 1673 | 6450 | 1486 | 6757 | 2242 | 7922 |
| 40 | 521584 | 516365 | 511405 | 506680 | 502168 | 497851 |
| 41 | 1494 | 6280 | 1325 | 6603 | 2095 | 7781 |
| 42 | 1405 | 6196 | 1244 | 6526 | 2021 | 7710 |
| 43 | 521316 | 516111 | 511164 | 506450 | 501948 | 497640 |
| 44 | 1227 | 6027 | 1083 | 6373 | 1875 | 7570 |
| 45 | 1138 | 5942 | 1003 | 6296 | 1801 | 7499 |
| 46 | 521049 | 515858 | 510923 | 506220 | 501728 | 497429 |
| 47 | 0961 | 5774 | 0843 | 6143 | 1655 | 7359 |
| 48 | 0872 | 5689 | 0762 | 6067 | 1582 | 7289 |
| 49 | 520783 | 515605 | 510682 | 505990 | 501509 | 497219 |
| 50 | 0695 | 5521 | 0602 | 5914 | 1436 | 7149 |
| 51 | 0607 | 5437 | 0522 | 5838 | 1363 | 7079 |
| 52 | 520518 | 515353 | 510442 | 505761 | 501290 | 497010 |
| 53 | 0430 | 5269 | 0363 | 5685 | 1217 | 6940 |
| 54 | 0342 | 5186 | 0283 | 5609 | 1144 | 6870 |
| 55 | 520253 | 515102 | 510203 | 505533 | 501071 | 496800 |
| 56 | 0165 | 5018 | 0123 | 5457 | 0998 | 6731 |
| 57 | 520077 | 4935 | 510044 | 5381 | 0926 | 6661 |
| 58 | 519989 | 514851 | 509964 | 505305 | 500853 | 496591 |
| 59 | 9901 | 4768 | 9885 | 5229 | 0781 | 6522 |
| 60 | 9814 | 4684 | 9805 | 5153 | 0708 | 6452 |
| Pro Meſo-log. ſubtr. | 1 | 2 | 2 | 2 | 2 | 2 |

| // | ′ 24 | ′ 25 | ′ 26 | ′ 27 | ′ 28 | ′ 29 |
|---|---|---|---|---|---|---|
| 0 | 496452 | 492370 | 488448 | 484674 | 481038 | 477529 |
| 1 | 6383 | 2304 | 8384 | 4613 | 0978 | 7471 |
| 2 | 6314 | 2237 | 8320 | 4551 | 0919 | 7414 |
| 3 | 6244 | 2171 | 8256 | 4489 | 0859 | 7356 |
| 4 | 496175 | 492104 | 488192 | 484428 | 480800 | 477299 |
| 5 | 6106 | 2038 | 8128 | 4366 | 0741 | 7241 |
| 6 | 6037 | 1971 | 8065 | 4305 | 0681 | 7184 |
| 7 | 495968 | 491905 | 488001 | 484243 | 480622 | 477127 |
| 8 | 5898 | 1839 | 7937 | 4182 | 0563 | 7070 |
| 9 | 5829 | 1772 | 7873 | 4121 | 0504 | 7013 |
| 10 | 495760 | 491706 | 487809 | 484059 | 480445 | 476956 |
| 11 | 5692 | 1640 | 7746 | 3998 | 0385 | 6899 |
| 12 | 5623 | 1574 | 7682 | 3937 | 0326 | 6841 |
| 13 | 495554 | 491507 | 487618 | 483875 | 480267 | 476784 |
| 14 | 5485 | 1441 | 7555 | 3814 | 0208 | 6727 |
| 15 | 5416 | 1375 | 7481 | 3753 | 0149 | 6670 |
| 16 | 495348 | 491310 | 487428 | 483692 | 480090 | 476613 |
| 17 | 5279 | 1244 | 7364 | 3631 | 480031 | 6556 |
| 18 | 5210 | 1178 | 7301 | 3570 | 479972 | 6500 |
| 19 | 495142 | 491112 | 487238 | 483509 | 479913 | 476443 |
| 20 | 5073 | 1046 | 7174 | 3447 | 9854 | 6386 |
| 21 | 5005 | 0980 | 7111 | 3386 | 9795 | 6329 |
| 22 | 494936 | 490914 | 487048 | 483326 | 479737 | 476272 |
| 23 | 4868 | 0849 | 6985 | 3265 | 9678 | 6216 |
| 24 | 4800 | 0783 | 6922 | 3204 | 9619 | 6159 |
| 25 | 494731 | 490718 | 486858 | 483143 | 479561 | 476102 |
| 26 | 4663 | 0652 | 6795 | 3082 | 9502 | 6046 |
| 27 | 4595 | 0586 | 6732 | 3022 | 9443 | 5989 |
| 28 | 494527 | 490521 | 486669 | 482961 | 479385 | 475932 |
| 29 | 4459 | 0456 | 6606 | 2900 | 9326 | 5879 |
| 30 | 4391 | 0390 | 6544 | 2840 | 9268 | 5819 |
| Pro Meſo-log. ſubtr. | 2 | 2 | 2 | 3 | 3 | 3 |

| ′ | 24 | 25 | 26 | 27 | 28 | 29 |
|---|---|---|---|---|---|---|
| 30 | 494391 | 490390 | 486544 | 482840 | 479268 | 475819 |
| 31 | 4323 | 0325 | 6481 | 2779 | 9209 | 5763 |
| 32 | 4255 | 0260 | 6418 | 2718 | 9151 | 5706 |
| 33 | 4187 | 0194 | 6355 | 2658 | 9093 | 5650 |
| 34 | 494119 | 490129 | 486292 | 482597 | 479034 | 475594 |
| 35 | 4051 | 490064 | 6230 | 2537 | 8976 | 5537 |
| 36 | 3983 | 489999 | 6167 | 2477 | 8918 | 5481 |
| 37 | 493916 | 489934 | 486104 | 482416 | 478859 | 475426 |
| 38 | 3848 | 9869 | 6042 | 2356 | 8801 | 5369 |
| 39 | 3780 | 9804 | 5979 | 2296 | 8743 | 5313 |
| 40 | 493713 | 489739 | 485917 | 482235 | 478685 | 475256 |
| 41 | 3645 | 9674 | 5854 | 2175 | 8627 | 5200 |
| 42 | 3578 | 9609 | 5792 | 2115 | 8569 | 5144 |
| 43 | 493510 | 489544 | 485729 | 482055 | 478510 | 475088 |
| 44 | 3443 | 9479 | 5667 | 1995 | 8452 | 5031 |
| 45 | 3375 | 9415 | 5605 | 1935 | 8394 | 4975 |
| 46 | 493308 | 489350 | 485542 | 481874 | 478336 | 474919 |
| 47 | 3241 | 9285 | 5480 | 1814 | 8279 | 4863 |
| 48 | 3174 | 9221 | 5418 | 1755 | 8221 | 4807 |
| 49 | 493106 | 489156 | 485356 | 481695 | 478163 | 474752 |
| 50 | 3039 | 9091 | 5294 | 1635 | 8105 | 4696 |
| 51 | 2972 | 9027 | 5231 | 1575 | 8047 | 4640 |
| 52 | 492905 | 488963 | 485169 | 481515 | 477990 | 474584 |
| 53 | 2838 | 8898 | 5107 | 1455 | 7932 | 4528 |
| 54 | 2771 | 8834 | 5045 | 1396 | 7874 | 4473 |
| 55 | 492704 | 488769 | 484983 | 481336 | 477817 | 474417 |
| 56 | 2637 | 8705 | 4922 | 1276 | 7759 | 4361 |
| 57 | 2571 | 8641 | 4860 | 1217 | 7701 | 4306 |
| 58 | 492504 | 488577 | 484798 | 481157 | 477644 | 474250 |
| 59 | 2437 | 8513 | 4736 | 1097 | 7586 | 4194 |
| 60 | 2370 | 8448 | 4674 | 1038 | 7529 | 4139 |
| Pro Meso-log. subtr. | 2 | 2 | 3 | 3 | 3 | 4 |

| | ′ 30 | ′ 31 | ′ 32 | ′ 33 | ′ 34 | ′ 35 |
|---|---|---|---|---|---|---|
| // | | | | | | |
| 0 | 474139 | 470860 | 467685 | 464608 | 461623 | 458724 |
| 1 | 474083 | 806 | 633 | 557 | 574 | 676 |
| 2 | 474028 | 752 | 581 | 507 | 525 | 629 |
| 3 | 473972 | 699 | 529 | 456 | 476 | 581 |
| 4 | 473917 | 470645 | 467477 | 464406 | 461427 | 458534 |
| 5 | 861 | 591 | 425 | 356 | 378 | 486 |
| 6 | 806 | 538 | 373 | 305 | 329 | 439 |
| 7 | 473751 | 470484 | 467321 | 464255 | 461280 | 458391 |
| 8 | 695 | 431 | 269 | 205 | 231 | 344 |
| 9 | 640 | 377 | 217 | 154 | 183 | 297 |
| 10 | 473585 | 470324 | 467165 | 464104 | 461134 | 458249 |
| 11 | 529 | 270 | 114 | 054 | 085 | 202 |
| 12 | 474 | 217 | 062 | 464004 | 461036 | 154 |
| 13 | 473419 | 470163 | 467010 | 463953 | 460987 | 458107 |
| 14 | 364 | 110 | 466958 | 903 | 939 | 060 |
| 15 | 309 | 057 | 466907 | 853 | 890 | 458012 |
| 16 | 473254 | 470003 | 466855 | 463803 | 460842 | 457965 |
| 17 | 199 | 469950 | 803 | 753 | 793 | 918 |
| 18 | 144 | 469897 | 752 | 703 | 744 | 871 |
| 19 | 473089 | 469843 | 466700 | 463653 | 460696 | 457823 |
| 20 | 473034 | 790 | 649 | 603 | 647 | 776 |
| 21 | 472979 | 737 | 597 | 553 | 598 | 729 |
| 22 | 472924 | 469684 | 466546 | 463503 | 460550 | 457682 |
| 23 | 869 | 631 | 494 | 453 | 502 | 635 |
| 24 | 814 | 578 | 443 | 403 | 453 | 588 |
| 25 | 472759 | 469525 | 466391 | 463353 | 460405 | 457541 |
| 26 | 705 | 472 | 340 | 303 | 356 | 494 |
| 27 | 650 | 419 | 289 | 253 | 308 | 447 |
| 28 | 472595 | 469366 | 466237 | 463203 | 460260 | 457400 |
| 29 | 541 | 313 | 186 | 154 | 211 | 353 |
| 30 | 486 | 260 | 135 | 104 | 163 | 306 |
| Pro Meso-log. subtr. | 4 | 4 | 4 | 4 | 5 | 5 |

| ′ | ′ | ′ | ′ | ′ | ′ | ′ |
|---|---|---|---|---|---|---|
| 11 | 30 | 31 | 32 | 33 | 34 | 35 |
| 30 | 472486 | 469260 | 466135 | 463104 | 460163 | 457306 |
| 31 | 431 | 207 | 083 | 054 | 114 | 259 |
| 32 | 376 | 154 | 466032 | 463005 | 066 | 212 |
| 33 | 322 | 101 | 465982 | 462955 | 460018 | 165 |
| 34 | 472267 | 469048 | 465930 | 462905 | 459970 | 457118 |
| 35 | 213 | 468995 | 879 | 856 | 922 | 071 |
| 36 | 158 | 468943 | 827 | 806 | 874 | 457024 |
| 37 | 472104 | 468890 | 465776 | 462757 | 459825 | 456977 |
| 38 | 472050 | 837 | 725 | 707 | 777 | 931 |
| 39 | 471995 | 785 | 674 | 657 | 729 | 884 |
| 40 | 471941 | 468733 | 465623 | 462608 | 459681 | 456837 |
| 41 | 886 | 679 | 572 | 558 | 633 | 790 |
| 42 | 832 | 627 | 521 | 509 | 585 | 744 |
| 43 | 471778 | 468574 | 465470 | 462459 | 459537 | 456697 |
| 44 | 724 | 522 | 419 | 410 | 489 | 650 |
| 45 | 670 | 469 | 368 | 361 | 441 | 604 |
| 46 | 471615 | 468417 | 465317 | 462311 | 459393 | 456557 |
| 47 | 561 | 364 | 267 | 262 | 345 | 511 |
| 48 | 507 | 312 | 216 | 213 | 297 | 464 |
| 49 | 471453 | 468260 | 465165 | 462163 | 459249 | 456417 |
| 50 | 399 | 207 | 114 | 114 | 201 | 371 |
| 51 | 345 | 155 | 063 | 065 | 153 | 324 |
| 52 | 471291 | 468102 | 465013 | 462015 | 459106 | 456278 |
| 53 | 237 | 468050 | 464962 | 461966 | 058 | 232 |
| 54 | 183 | 467998 | 464911 | 461917 | 459010 | 185 |
| 55 | 471129 | 467946 | 464861 | 461869 | 458962 | 456139 |
| 56 | 075 | 894 | 810 | 819 | 915 | 092 |
| 57 | 471021 | 841 | 760 | 770 | 867 | 046 |
| 58 | 470967 | 467789 | 464709 | 461721 | 458819 | 456000 |
| 59 | 914 | 737 | 659 | 672 | 772 | 455953 |
| 60 | 860 | 685 | 608 | 623 | 724 | 455907 |
| Pro Meso-log. subtr. | 4 | 4 | 4 | 5 | 5 | |

| // | 36 | 37 | 38 | 39 | 40 | 41 |
|---|---|---|---|---|---|---|
| 0 | 455907 | 453167 | 450500 | 447903 | 445371 | 442902 |
| 1 | 861 | 122 | 457 | 860 | 330 | 862 |
| 2 | 814 | 077 | 413 | 818 | 288 | 821 |
| 3 | 768 | 453032 | 369 | 775 | 246 | 780 |
| 4 | 455722 | 452987 | 450325 | 447732 | 445205 | 442740 |
| 5 | 676 | 942 | 282 | 690 | 163 | 699 |
| 6 | 630 | 897 | 238 | 647 | 122 | 659 |
| 7 | 455583 | 452852 | 450194 | 447604 | 445086 | 442618 |
| 8 | 537 | 807 | 150 | 562 | 445039 | 578 |
| 9 | 491 | 763 | 107 | 519 | 444997 | 537 |
| 10 | 455445 | 452718 | 450063 | 447477 | 444958 | 442497 |
| 11 | 399 | 673 | 450019 | 434 | 914 | 456 |
| 12 | 353 | 628 | 449976 | 392 | 873 | 416 |
| 13 | 455307 | 452583 | 449932 | 447349 | 444831 | 442375 |
| 14 | 261 | 539 | 888 | 306 | 790 | 335 |
| 15 | 215 | 494 | 845 | 264 | 748 | 295 |
| 16 | 455169 | 452449 | 449801 | 447222 | 444707 | 442254 |
| 17 | 123 | 405 | 758 | 179 | 666 | 214 |
| 18 | 077 | 360 | 714 | 137 | 624 | 173 |
| 19 | 455031 | 452315 | 449671 | 447094 | 444583 | 442133 |
| 20 | 454985 | 270 | 627 | 052 | 542 | 093 |
| 21 | 454939 | 226 | 584 | 447010 | 500 | 052 |
| 22 | 454894 | 452181 | 449540 | 446967 | 444459 | 442012 |
| 23 | 848 | 137 | 497 | 925 | 418 | 441972 |
| 24 | 802 | 092 | 453 | 883 | 376 | 441931 |
| 25 | 454756 | 452047 | 449410 | 446840 | 444335 | 441891 |
| 26 | 711 | 452003 | 367 | 798 | 294 | 851 |
| 27 | 665 | 451958 | 323 | 756 | 253 | 811 |
| 28 | 454619 | 451914 | 449280 | 446714 | 444212 | 441770 |
| 29 | 573 | 870 | 237 | 671 | 170 | 730 |
| 30 | 528 | 825 | 193 | 629 | 129 | 690 |
| Pro Meso- | | | | | | |
| gg. subar. | 6. | 6. | 6. | 6. | 7. | 7. |

| // | ′ 36 | ′ 37 | ′ 38 | ′ 39 | ′ 40 | ′ 41 |
|---|---|---|---|---|---|---|
| 30 | 454528 | 451825 | 449193 | 446629 | 444129 | 441690 |
| 31 | 482 | 780 | 150 | 587 | 088 | 650 |
| 32 | 436 | 736 | 107 | 545 | 047 | 610 |
| 33 | 391 | 692 | 063 | 503 | 444006 | 570 |
| 34 | 454345 | 451647 | 449020 | 446461 | 443965 | 441530 |
| 35 | 300 | 603 | 448977 | 418 | 924 | 490 |
| 36 | 254 | 559 | 448934 | 376 | 883 | 449 |
| 37 | 454209 | 451514 | 448891 | 446334 | 443842 | 441409 |
| 38 | 163 | 470 | 848 | 292 | 801 | 369 |
| 39 | 118 | 426 | 805 | 250 | 759 | 329 |
| 40 | 454072 | 451382 | 448761 | 446208 | 443718 | 441289 |
| 41 | 454027 | 337 | 718 | 166 | 678 | 249 |
| 42 | 453981 | 293 | 675 | 124 | 637 | 209 |
| 43 | 453936 | 451249 | 448632 | 446082 | 443596 | 441169 |
| 44 | 891 | 205 | 589 | 446040 | 555 | 129 |
| 45 | 845 | 161 | 546 | 445998 | 514 | 090 |
| 46 | 453800 | 451116 | 448503 | 445956 | 443473 | 441050 |
| 47 | 755 | 072 | 460 | 914 | 432 | 441010 |
| 48 | 709 | 451028 | 417 | 873 | 391 | 440970 |
| 49 | 453664 | 450984 | 448374 | 445831 | 443350 | 440930 |
| 50 | 619 | 940 | 331 | 789 | 310 | 890 |
| 51 | 573 | 896 | 288 | 747 | 269 | 850 |
| 52 | 453528 | 450852 | 448246 | 445705 | 443228 | 440811 |
| 53 | 483 | 808 | 203 | 663 | 187 | 771 |
| 54 | 438 | 764 | 160 | 622 | 146 | 731 |
| 55 | 453393 | 450720 | 448117 | 445580 | 443106 | 440691 |
| 56 | 348 | 676 | 074 | 538 | 065 | 651 |
| 57 | 303 | 632 | 448031 | 496 | 443024 | 912 |
| 58 | 453257 | 450588 | 447988 | 445455 | 442984 | 440572 |
| 59 | 212 | 544 | 946 | 413 | 643 | 532 |
| 60 | 167 | 500 | 903 | 371 | 902 | 493 |
| Pro Meso-log. subtr. | 6 | 6 | 6 | 6 | 7 | 7 |

| // | 42 | 43 | 44 | 45 | 46 | 47 |
|---|---|---|---|---|---|---|
| 0 | 440493 | 438140 | 435841 | 433594 | 431396 | 429245 |
| 1 | 453 | 101 | 803 | 557 | 360 | 210 |
| 2 | 413 | 062 | 765 | 520 | 323 | 175 |
| 3 | 374 | 438023 | 727 | 483 | 287 | 139 |
| 4 | 440334 | 437985 | 435689 | 433446 | 431251 | 429104 |
| 5 | 294 | 946 | 652 | 409 | 215 | 068 |
| 6 | 255 | 907 | 614 | 372 | 179 | 429033 |
| 7 | 440215 | 437869 | 435576 | 433335 | 431143 | 428998 |
| 8 | 176 | 830 | 538 | 298 | 107 | 962 |
| 9 | 136 | 791 | 501 | 261 | 070 | 927 |
| 10 | 440097 | 437753 | 435436 | 433224 | 431034 | 428891 |
| 11 | 057 | 714 | 425 | 187 | 430998 | 856 |
| 12 | 440018 | 676 | 387 | 150 | 430962 | 821 |
| 13 | 439978 | 437637 | 435350 | 433113 | 430926 | 428786 |
| 14 | 939 | 599 | 312 | 077 | 890 | 750 |
| 15 | 899 | 560 | 274 | 040 | 854 | 715 |
| 16 | 439860 | 437521 | 435237 | 433003 | 430818 | 428680 |
| 17 | 820 | 483 | 199 | 432966 | 782 | 644 |
| 18 | 781 | 444 | 161 | 432929 | 746 | 609 |
| 19 | 439741 | 437406 | 435124 | 432893 | 430710 | 428574 |
| 20 | 702 | 368 | 086 | 856 | 674 | 539 |
| 21 | 663 | 329 | 049 | 819 | 638 | 504 |
| 22 | 439623 | 437291 | 435011 | 432782 | 430602 | 428468 |
| 23 | 584 | 252 | 434973 | 746 | 566 | 433 |
| 24 | 545 | 214 | 434936 | 709 | 530 | 398 |
| 25 | 439505 | 437176 | 434898 | 432672 | 430494 | 428363 |
| 26 | 466 | 137 | 861 | 635 | 458 | 328 |
| 27 | 427 | 099 | 823 | 599 | 422 | 293 |
| 28 | 439388 | 437060 | 434786 | 432562 | 430387 | 428257 |
| 29 | 349 | 437022 | 748 | 526 | 351 | 222 |
| 30 | 309 | 436984 | 711 | 489 | 315 | 187 |
| Pro Meso-log. subtr. | 7 | 8 | 8 | 9 | 9 | 9 |

| // | 42 | 43 | 44 | 45 | 46 | 47 |
|---|---|---|---|---|---|---|
| 30 | 439309 | 436984 | 434711 | 432489 | 430315 | 428187 |
| 31 | 270 | 945 | 673 | 452 | 279 | 152 |
| 32 | 231 | 907 | 636 | 416 | 243 | 117 |
| 33 | 192 | 869 | 599 | 379 | 207 | 082 |
| 34 | 439152 | 436831 | 434561 | 432342 | 430172 | 428047 |
| 35 | 113 | 792 | 524 | 306 | 136 | 428012 |
| 36 | 074 | 754 | 487 | 269 | 100 | 427977 |
| 37 | 439035 | 436716 | 434449 | 432233 | 430064 | 427942 |
| 38 | 438996 | 678 | 412 | 196 | 430029 | 907 |
| 39 | 438957 | 639 | 374 | 160 | 429993 | 872 |
| 40 | 438918 | 436601 | 434337 | 432123 | 429957 | 427837 |
| 41 | 879 | 563 | 300 | 087 | 921 | 802 |
| 42 | 840 | 525 | 263 | 050 | 886 | 767 |
| 43 | 438801 | 436487 | 434225 | 432014 | 429850 | 427732 |
| 44 | 762 | 450 | 188 | 431977 | 814 | 697 |
| 45 | 723 | 411 | 151 | 431941 | 779 | 662 |
| 46 | 438684 | 436373 | 434114 | 431905 | 429743 | 427628 |
| 47 | 645 | 334 | 076 | 868 | 707 | 593 |
| 48 | 606 | 296 | 039 | 832 | 672 | 558 |
| 49 | 438567 | 436258 | 434002 | 431795 | 429636 | 427523 |
| 50 | 528 | 220 | 433965 | 759 | 601 | 488 |
| 51 | 489 | 182 | 433928 | 723 | 565 | 453 |
| 52 | 438450 | 436144 | 433891 | 431686 | 429530 | 427418 |
| 53 | 411 | 106 | 853 | 650 | 494 | 383 |
| 54 | 373 | 068 | 816 | 614 | 458 | 349 |
| 55 | 438334 | 436030 | 433779 | 431577 | 429423 | 427314 |
| 56 | 295 | 435993 | 742 | 541 | 387 | 279 |
| 57 | 256 | 435955 | 705 | 505 | 352 | 244 |
| 58 | 438217 | 435917 | 433668 | 431469 | 429316 | 427209 |
| 59 | 179 | 879 | 631 | 432 | 281 | 175 |
| 60 | 140 | 841 | 594 | 396 | 245 | 140 |
| Pro Meso-log. subtr. | 8 | 8 | 9 | 9 | 9 | 10 |

| // | ′ 48 | ′ 49 | ′ 50 | ′ 51 | ′ 52 | ′ 53 |
|---|---|---|---|---|---|---|
| 0 | 427140 | 425078 | 423058 | 421078 | 419136 | 417231 |
| 1 | 106 | 425044 | 423025 | 421046 | 104 | 200 |
| 2 | 071 | 425010 | 422992 | 421013 | 072 | 169 |
| 3 | 036 | 424976 | 422958 | 420980 | 040 | 138 |
| 4 | 427001 | 424942 | 422925 | 420947 | 419008 | 417106 |
| 5 | 426967 | 909 | 892 | 915 | 418976 | 075 |
| 6 | 426932 | 875 | 859 | 882 | 418944 | 043 |
| 7 | 426898 | 424841 | 422825 | 420850 | 418913 | 417012 |
| 8 | 863 | 807 | 792 | 817 | 881 | 416981 |
| 9 | 828 | 773 | 759 | 784 | 849 | 416949 |
| 10 | 426794 | 424739 | 422726 | 420752 | 418817 | 416918 |
| 11 | 759 | 705 | 692 | 719 | 784 | 887 |
| 12 | 725 | 671 | 659 | 687 | 753 | 855 |
| 13 | 426691 | 424637 | 422626 | 420654 | 418721 | 416824 |
| 14 | 656 | 603 | 593 | 622 | 689 | 793 |
| 15 | 622 | 570 | 560 | 589 | 657 | 761 |
| 16 | 426587 | 424536 | 422526 | 420557 | 418625 | 416730 |
| 17 | 553 | 502 | 493 | 524 | 593 | 699 |
| 18 | 517 | 468 | 460 | 492 | 561 | 667 |
| 19 | 426483 | 424434 | 422427 | 420459 | 418529 | 416636 |
| 20 | 448 | 401 | 394 | 427 | 498 | 605 |
| 21 | 414 | 367 | 361 | 394 | 466 | 574 |
| 22 | 426379 | 424333 | 422328 | 420362 | 418434 | 416542 |
| 23 | 345 | 299 | 295 | 329 | 402 | 511 |
| 24 | 310 | 266 | 262 | 297 | 370 | 480 |
| 25 | 426276 | 424232 | 422229 | 420265 | 418338 | 416449 |
| 26 | 241 | 198 | 196 | 232 | 307 | 417 |
| 27 | 207 | 164 | 162 | 200 | 275 | 386 |
| 28 | 426173 | 424131 | 422129 | 420167 | 418243 | 416355 |
| 29 | 138 | 097 | 096 | 135 | 211 | 324 |
| 30 | 104 | 063 | 063 | 103 | 180 | 293 |
| Pro Meso-log. sub. | 10 | 10 | 11 | 11 | 12 | 12 |

| // | ′ 48 | ′ 49 | ′ 50 | ′ 51 | ′ 52 | ′ 53 |
|---|---|---|---|---|---|---|
| 30 | 426104 | 424063 | 422063 | 420103 | 418180 | 416293 |
| 31 | 070 | 424030 | 422030 | 070 | 148 | 262 |
| 32 | 035 | 423996 | 421997 | 038 | 116 | 231 |
| 33 | 426001 | 423962 | 421964 | 420006 | 084 | 200 |
| 34 | 425967 | 423929 | 421931 | 419973 | 418053 | 416168 |
| 35 | 932 | 895 | 898 | 941 | 418021 | 137 |
| 36 | 898 | 862 | 865 | 909 | 417989 | 106 |
| 37 | 425864 | 423828 | 421833 | 419876 | 417958 | 416075 |
| 38 | 829 | 794 | 800 | 844 | 926 | 044 |
| 39 | 795 | 761 | 767 | 812 | 894 | 416013 |
| 40 | 425761 | 423727 | 421734 | 419780 | 417863 | 415982 |
| 41 | 727 | 694 | 701 | 747 | 831 | 951 |
| 42 | 693 | 660 | 668 | 715 | 799 | 920 |
| 43 | 425658 | 423627 | 421635 | 419683 | 417768 | 415889 |
| 44 | 624 | 593 | 602 | 651 | 736 | 858 |
| 45 | 590 | 560 | 569 | 618 | 705 | 827 |
| 46 | 425556 | 423526 | 421537 | 419586 | 417673 | 415796 |
| 47 | 522 | 493 | 504 | 554 | 641 | 765 |
| 48 | 488 | 459 | 471 | 522 | 610 | 734 |
| 49 | 425453 | 423426 | 421438 | 419490 | 417578 | 415703 |
| 50 | 419 | 392 | 405 | 458 | 547 | 672 |
| 51 | 385 | 359 | 373 | 425 | 515 | 641 |
| 52 | 425351 | 423325 | 421340 | 419393 | 417484 | 415610 |
| 53 | 317 | 292 | 307 | 361 | 452 | 579 |
| 54 | 282 | 258 | 274 | 329 | 421 | 548 |
| 55 | 425248 | 423225 | 421242 | 419297 | 417389 | 415517 |
| 56 | 214 | 192 | 209 | 265 | 358 | 486 |
| 57 | 180 | 158 | 176 | 233 | 326 | 455 |
| 58 | 425146 | 423125 | 421144 | 419201 | 417295 | 415425 |
| 59 | 112 | 092 | 111 | 169 | 263 | 394 |
| 60 | 078 | 058 | 078 | 136 | 232 | 363 |
| Pro Meſo-log. ſubtr. | 10 | 10 | 11 | 11 | 12 | 12 |

| // | ′ 54 | ′ 55 | ′ 56 | ′ 57 | ′ 58 | ′ 59 |
|---|---|---|---|---|---|---|
| 0 | 415363 | 413528 | 411726 | 409957 | 408218 | 406508 |
| 1 | 332 | 498 | 697 | 927 | 189 | 480 |
| 2 | 301 | 467 | 667 | 898 | 160 | 452 |
| 3 | 270 | 437 | 637 | 869 | 131 | 424 |
| 4 | 415239 | 413407 | 411607 | 409840 | 408103 | 406395 |
| 5 | 209 | 377 | 578 | 810 | 074 | 367 |
| 6 | 178 | 346 | 548 | 781 | 045 | 339 |
| 7 | 415147 | 413316 | 411518 | 409752 | 408017 | 406311 |
| 8 | 116 | 286 | 489 | 723 | 407988 | 283 |
| 9 | 085 | 256 | 459 | 694 | 407959 | 255 |
| 10 | 415055 | 413225 | 411429 | 409665 | 407931 | 406226 |
| 11 | 415024 | 195 | 399 | 635 | 902 | 198 |
| 12 | 414993 | 165 | 370 | 606 | 873 | 170 |
| 13 | 414962 | 413135 | 411340 | 409577 | 407845 | 406142 |
| 14 | 932 | 105 | 311 | 548 | 816 | 114 |
| 15 | 901 | 075 | 281 | 519 | 787 | 086 |
| 16 | 414870 | 413044 | 411251 | 409490 | 407759 | 406058 |
| 17 | 840 | 413014 | 222 | 461 | 730 | 029 |
| 18 | 809 | 412984 | 192 | 432 | 702 | 406001 |
| 19 | 414778 | 412954 | 411163 | 409403 | 407673 | 405973 |
| 20 | 747 | 924 | 133 | 374 | 644 | 945 |
| 21 | 717 | 894 | 103 | 345 | 616 | 917 |
| 22 | 414686 | 412864 | 411074 | 409316 | 407587 | 405889 |
| 23 | 656 | 834 | 044 | 287 | 559 | 861 |
| 24 | 625 | 804 | 411015 | 258 | 530 | 833 |
| 25 | 414594 | 412773 | 410985 | 409229 | 407502 | 405805 |
| 26 | 564 | 743 | 956 | 199 | 473 | 777 |
| 27 | 533 | 713 | 926 | 170 | 445 | 749 |
| 28 | 414502 | 412683 | 410897 | 409141 | 407416 | 405721 |
| 29 | 472 | 653 | 867 | 112 | 388 | 693 |
| 30 | 441 | 623 | 837 | 083 | 359 | 665 |
| Pro Meso-log. sub. | 12 | 13 | 13 | 14 | 14 | 14 |

| // | ′ 54 | ′ 55 | ′ 56 | ′ 57 | ′ 58 | ′ 59 |
|---|---|---|---|---|---|---|
| 30 | 414441 | 412623 | 410837 | 409083 | 407359 | 405665 |
| 31 | 411 | 593 | 808 | 409054 | 331 | 636 |
| 32 | 380 | 563 | 779 | 409025 | 302 | 608 |
| 33 | 350 | 533 | 749 | 408996 | 274 | 580 |
| 34 | 414319 | 412503 | 410720 | 408967 | 407245 | 405552 |
| 35 | 288 | 473 | 690 | 938 | 217 | 524 |
| 36 | 258 | 443 | 661 | 909 | 188 | 497 |
| 37 | 414227 | 412413 | 410631 | 408881 | 407160 | 405469 |
| 38 | 196 | 383 | 602 | 852 | 132 | 441 |
| 39 | 166 | 353 | 572 | 823 | 103 | 413 |
| 40 | 414136 | 412323 | 410543 | 408794 | 407075 | 405385 |
| 41 | 105 | 293 | 514 | 765 | 046 | 357 |
| 42 | 075 | 263 | 484 | 736 | 407018 | 329 |
| 43 | 414045 | 412233 | 410455 | 408707 | 406990 | 405301 |
| 44 | 414014 | 204 | 425 | 678 | 961 | 273 |
| 45 | 413984 | 174 | 396 | 649 | 933 | 245 |
| 46 | 413953 | 412144 | 410367 | 408620 | 406904 | 405217 |
| 47 | 923 | 114 | 337 | 592 | 876 | 190 |
| 48 | 892 | 084 | 308 | 563 | 848 | 162 |
| 49 | 413862 | 412054 | 410279 | 408534 | 406819 | 405134 |
| 50 | 831 | 412024 | 249 | 505 | 791 | 106 |
| 51 | 801 | 411994 | 220 | 476 | 763 | 078 |
| 52 | 413771 | 411965 | 410191 | 408448 | 406734 | 405050 |
| 53 | 740 | 935 | 161 | 419 | 706 | 405022 |
| 54 | 710 | 905 | 132 | 390 | 678 | 404995 |
| 55 | 413680 | 411875 | 410103 | 408361 | 406650 | 404967 |
| 56 | 649 | 845 | 074 | 333 | 621 | 939 |
| 57 | 619 | 816 | 044 | 304 | 593 | 911 |
| 58 | 413589 | 411786 | 410015 | 408275 | 406565 | 404883 |
| 59 | 558 | 756 | 409986 | 246 | 537 | 856 |
| 60 | 528 | 726 | 409957 | 218 | 508 | 828 |
| Pro Mesq-log. subtr. | 13 | 13 | 14 | 14 | 15 | 15 |

FINIS
LOGARITHMORUM
ad singula primi gradus
Scrupula Secunda.

# TABULA
# LOGARITHMICA
## QVARTA
continens
## ANTILOGARITHMOS
ad majorem Radium & ad bina Scrupp. Secunda totius Primi et bessis Secundi gradus supputatos
à
## JACOBO BARTSCHIO
Phil. et Med. D.

Prima quidem primæ paginæ columna respicit Radium 10 (præter unitatem) cifrarum: reliquæ 4 columnæ eiusdem paginæ Radium 9 cifrarum: cæteræ paginæ omnes Radium 8 cifrarum.

Interpunctio denotat respectum Radii 5 cifrarū.

| / | / 0 | / 1 | / 2 | / 3 | / 4 |
|---|---|---|---|---|---|
| // | | | | | |
| 0 | 0. 00000 | 0. 0042 | 0. 0169 | 0. 0381 | 0. 0677 |
| 2 | 0001 | 045 | 175 | 389 | 688 |
| 4 | 0002 | 048 | 181 | 398 | 700 |
| 6 | 0004 | 051 | 187 | 407 | 711 |
| 8 | 0. 00008 | 0. 0054 | 0. 0193 | 0. 0415 | 0. 0723 |
| 10 | 0012 | 058 | 199 | 424 | 734 |
| 12 | 0017 | 061 | 205 | 433 | 746 |
| 14 | 0. 00023 | 0. 0064 | 0. 0211 | 0. 0442 | 0. 0758 |
| 16 | 0030 | 068 | 217 | 451 | 770 |
| 18 | 0038 | 071 | 224 | 461 | 782 |
| 20 | 0. 00047 | 0. 0075 | 0. 0230 | 0. 0471 | 0. 0794 |
| 22 | 0057 | 079 | 237 | 480 | 807 |
| 24 | 0068 | 083 | 244 | 489 | 819 |
| 26 | 0. 00079 | 0. 0087 | 0. 0250 | 0. 0499 | 0. 0831 |
| 28 | 0092 | 091 | 257 | 508 | 844 |
| 30 | 0106 | 095 | 264 | 518 | 857 |
| 32 | 0. 00120 | 0. 0099 | 0. 0271 | 0. 0528 | 0. 0869 |
| 34 | 0136 | 104 | 279 | 538 | 882 |
| 36 | 0152 | 108 | 286 | 548 | 895 |
| 38 | 0. 00170 | 0. 0113 | 0. 0293 | 0. 0558 | 0. 0908 |
| 40 | 0188 | 117 | 301 | 569 | 921 |
| 42 | 0207 | 122 | 308 | 579 | 935 |
| 44 | 0. 00228 | 0. 0127 | 0. 0316 | 0. 0590 | 0. 0948 |
| 46 | 0249 | 132 | 324 | 600 | 961 |
| 48 | 0271 | 137 | 332 | 611 | 975 |
| 50 | 0. 00294 | 0. 0142 | 0. 0340 | 0. 0622 | 0. 0988 |
| 52 | 0318 | 147 | 348 | 632 | 1002 |
| 54 | 0343 | 153 | 356 | 643 | 1016 |
| 56 | 0. 00369 | 0. 0158 | 0. 0364 | 0. 0654 | 0. 1030 |
| 58 | 0395 | 164 | 372 | 666 | 1044 |
| 60 | 0423 | 169 | 381 | 677 | 1058 |

| // | ′ 5 | ′ 6 | ′ 7 | ′ 8 | ′ 9 | ′ 10 | ′ 11 |
|---|---|---|---|---|---|---|---|
| 0 | 0. 106 | 0. 152 | 0. 207 | 0. 271 | 0. 343 | 0. 423 | 0. 512 |
| 2 | 107 | 154 | 209 | 273 | 345 | 426 | 515 |
| 4 | 109 | 156 | 211 | 275 | 348 | 429 | 518 |
| 6 | 110 | 157 | 213 | 278 | 350 | 432 | 521 |
| 8 | 0. 111 | 0. 159 | 0. 215 | 0. 280 | 0. 353 | 0. 434 | 0. 524 |
| 10 | 113 | 161 | 217 | 282 | 355 | 437 | 528 |
| 12 | 114 | 163 | 219 | 284 | 358 | 440 | 531 |
| 14 | 0. 116 | 0. 164 | 0. 221 | 0. 287 | 0. 361 | 0. 443 | 0. 534 |
| 16 | 117 | 166 | 223 | 289 | 363 | 446 | 537 |
| 18 | 119 | 168 | 225 | 291 | 366 | 449 | 540 |
| 20 | 0. 120 | 0. 170 | 0. 227 | 0. 294 | 0. 369 | 0. 452 | 0. 543 |
| 22 | 122 | 171 | 230 | 296 | 371 | 455 | 547 |
| 24 | 123 | 173 | 232 | 299 | 374 | 458 | 550 |
| 26 | 0. 125 | 0. 175 | 0. 234 | 0. 301 | 0. 377 | 0. 461 | 0. 553 |
| 28 | 126 | 177 | 236 | 303 | 379 | 464 | 556 |
| 30 | 128 | 179 | 238 | 306 | 382 | 466 | 560 |
| 32 | 0. 129 | 0. 181 | 0. 240 | 0. 308 | 0. 385 | 0. 469 | 0. 563 |
| 34 | 131 | 182 | 242 | 310 | 387 | 472 | 566 |
| 36 | 133 | 184 | 244 | 313 | 390 | 475 | 569 |
| 38 | 0. 134 | 0. 186 | 0. 246 | 0. 315 | 0. 393 | 0. 478 | 0. 573 |
| 40 | 136 | 188 | 249 | 318 | 395 | 481 | 576 |
| 42 | 137 | 190 | 251 | 320 | 398 | 484 | 579 |
| 44 | 0. 139 | 0. 192 | 0. 253 | 0. 323 | 0. 401 | 0. 487 | 0. 583 |
| 36 | 141 | 194 | 255 | 325 | 404 | 490 | 586 |
| 48 | 142 | 196 | 257 | 328 | 406 | 494 | 589 |
| 50 | 0. 144 | 0. 198 | 0. 260 | 0. 330 | 0. 409 | 0. 497 | 0. 592 |
| 52 | 146 | 199 | 262 | 333 | 412 | 500 | 596 |
| 54 | 147 | 201 | 264 | 335 | 415 | 503 | 599 |
| 56 | 0. 149 | 0. 203 | 0. 266 | 0. 338 | 0. 417 | 0. 506 | 0. 603 |
| 58 | 151 | 205 | 269 | 340 | 420 | 509 | 606 |
| 60 | 152 | 207 | 271 | 343 | 423 | 512 | 609 |

| // | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|
| 0 | 0. 609 | 0. 715 | 0. 829 | 0. 952 | 1. 083 | 1. 223 | 1. 371 |
| 2 | 612 | 719 | 833 | 956 | 088 | 228 | 376 |
| 4 | 616 | 723 | 837 | 961 | 093 | 233 | 382 |
| 6 | 619 | 726 | 841 | 965 | 097 | 238 | 387 |
| 8 | 0. 623 | 0. 730 | 0. 845 | 0. 969 | 1. 102 | 1. 242 | 1. 391 |
| 10 | 626 | 733 | 849 | 973 | 106 | 247 | 396 |
| 12 | 630 | 737 | 853 | 978 | 111 | 252 | 402 |
| 14 | 0. 633 | 0. 741 | 0. 857 | 0. 982 | 1. 115 | 1. 257 | 1. 407 |
| 16 | 637 | 745 | 861 | 986 | 120 | 262 | 412 |
| 18 | 640 | 749 | 865 | 991 | 125 | 266 | 417 |
| 20 | 0. 644 | 0. 752 | 0. 869 | 0. 995 | 1. 129 | 1. 271 | 1. 422 |
| 22 | 647 | 756 | 874 | 0. 999 | 134 | 276 | 428 |
| 24 | 651 | 760 | 878 | 1. 004 | 138 | 281 | 433 |
| 26 | 0. 654 | 0. 764 | 0. 882 | 1. 008 | 1. 143 | 1. 286 | 1. 438 |
| 28 | 658 | 767 | 886 | 012 | 148 | 291 | 443 |
| 30 | 661 | 771 | 890 | 016 | 152 | 296 | 448 |
| 32 | 0. 665 | 0. 775 | 0. 894 | 1. 021 | 1. 157 | 1. 301 | 1. 454 |
| 34 | 668 | 779 | 898 | 026 | 162 | 306 | 459 |
| 36 | 672 | 783 | 902 | 030 | 166 | 311 | 464 |
| 38 | 0. 675 | 0. 787 | 0. 906 | 1. 034 | 1. 171 | 1. 316 | 1. 469 |
| 40 | 679 | 790 | 910 | 038 | 175 | 321 | 474 |
| 42 | 683 | 794 | 915 | 043 | 180 | 326 | 480 |
| 44 | 0. 686 | 0. 798 | 0. 919 | 1. 048 | 1. 185 | 1. 331 | 1. 485 |
| 46 | 690 | 802 | 923 | 052 | 190 | 336 | 491 |
| 48 | 693 | 806 | 927 | 057 | 195 | 341 | 496 |
| 50 | 0. 697 | 0. 810 | 0. 931 | 1. 061 | 1. 199 | 1. 346 | 1. 501 |
| 52 | 701 | 814 | 935 | 065 | 204 | 351 | 507 |
| 54 | 704 | 818 | 940 | 070 | 209 | 356 | 512 |
| 56 | 0. 708 | 0. 822 | 0. 944 | 1. 074 | 1. 214 | 1. 361 | 1. 517 |
| 58 | 712 | 826 | 948 | 079 | 218 | 366 | 522 |
| 60 | 715 | 829 | 952 | 083 | 223 | 371 | 527 |
| Semidiff. | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

| // | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|---|---|---|---|---|---|---|---|
| 0 | 1. 527 | 1. 692 | 1. 866 | 2. 048 | 2. 238 | 2. 437 | 2. 644 |
| 2 | 533 | 698 | 872 | 054 | 245 | 444 | 651 |
| 4 | 539 | 704 | 878 | 060 | 251 | 450 | 658 |
| 6 | 544 | 709 | 884 | 067 | 258 | 457 | 666 |
| 8 | 1. 549 | 1. 715 | 1. 890 | 2. 073 | 2. 265 | 2. 464 | 2. 673 |
| 10 | 554 | 721 | 896 | 079 | 271 | 471 | 680 |
| 12 | 560 | 726 | 902 | 086 | 278 | 478 | 688 |
| 14 | 1. 565 | 1. 732 | 1. 908 | 2. 092 | 2. 284 | 2. 485 | 2. 694 |
| 16 | 571 | 738 | 914 | 098 | 291 | 492 | 701 |
| 18 | 576 | 743 | 920 | 104 | 297 | 498 | 708 |
| 20 | 1. 581 | 1. 749 | 1. 926 | 2. 110 | 2. 303 | 2. 505 | 2. 715 |
| 22 | 587 | 755 | 932 | 116 | 310 | 512 | 722 |
| 24 | 592 | 760 | 938 | 122 | 317 | 519 | 730 |
| 26 | 1. 508 | 1. 766 | 1. 944 | 2. 129 | 2. 323 | 2. 526 | 2. 737 |
| 28 | 603 | 772 | 950 | 136 | 330 | 533 | 744 |
| 40 | 609 | 778 | 956 | 142 | 336 | 540 | 751 |
| 32 | 1. 614 | 1. 784 | 1. 962 | 2. 148 | 2. 343 | 2. 547 | 2. 758 |
| 34 | 620 | 789 | 968 | 154 | 350 | 554 | 766 |
| 36 | 625 | 795 | 974 | 161 | 356 | 560 | 773 |
| 38 | 1. 631 | 1. 801 | 1. 980 | 2. 168 | 2. 363 | 2. 567 | 2. 780 |
| 40 | 636 | 807 | 986 | 174 | 370 | 574 | 787 |
| 42 | 642 | 813 | 992 | 181 | 377 | 581 | 794 |
| 44 | 1. 647 | 1. 819 | 1. 998 | 2. 187 | 2. 383 | 2. 588 | 2. 802 |
| 46 | 653 | 825 | 2. 004 | 193 | 390 | 595 | 809 |
| 48 | 658 | 830 | 2. 010 | 200 | 396 | 602 | 816 |
| 50 | 1. 664 | 1. 836 | 2. 017 | 2. 206 | 2. 403 | 2. 609 | 2. 823 |
| 52 | 670 | 842 | 023 | 213 | 410 | 616 | 830 |
| 54 | 675 | 848 | 030 | 220 | 417 | 623 | 838 |
| 56 | 1. 681 | 1. 854 | 2. 036 | 2. 226 | 2. 423 | 2. 630 | 2. 845 |
| 58 | 686 | 860 | 042 | 232 | 430 | 637 | 852 |
| 60 | 692 | 866 | 048 | 238 | 437 | 644 | 860 |
| Semidiff. | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

| // | ′ 26 | ′ 27 | ′ 28 | ′ 29 | ′ 30 | ′ 31 | ′ 32 |
|---|---|---|---|---|---|---|---|
| 0 | 2. 860 | 3. 084 | 3. 317 | 3. 558 | 3. 807 | 4. 066 | 4. 332 |
| 2 | 867 | 091 | 325 | 566 | 815 | 075 | 341 |
| 4 | 874 | 099 | 333 | 574 | 824 | 084 | 350 |
| 6 | 882 | 106 | 341 | 582 | 832 | 092 | 360 |
| 8 | 2. 890 | 3. 114 | 3. 349 | 3. 590 | 3. 841 | 4. 101 | 4. 369 |
| 10 | 897 | 122 | 357 | 599 | 850 | 110 | 378 |
| 12 | 904 | 129 | 364 | 607 | 858 | 119 | 387 |
| 14 | 2. 911 | 3. 137 | 3. 372 | 3. 615 | 3. 867 | 4. 128 | 4. 396 |
| 16 | 919 | 145 | 380 | 623 | 875 | 136 | 405 |
| 18 | 926 | 153 | 388 | 631 | 884 | 145 | 414 |
| 20 | 2. 934 | 3. 161 | 3. 396 | 3. 640 | 3. 893 | 4. 154 | 4. 423 |
| 22 | 941 | 169 | 404 | 648 | 901 | 163 | 431 |
| 24 | 949 | 177 | 412 | 656 | 910 | 172 | 441 |
| 26 | 2. 956 | 3. 185 | 3. 420 | 3. 665 | 3. 918 | 4. 180 | 4. 451 |
| 28 | 964 | 192 | 428 | 673 | 927 | 189 | 460 |
| 30 | 971 | 200 | 436 | 682 | 936 | 198 | 469 |
| 32 | 2. 978 | 3. 208 | 3. 444 | 3. 690 | 3. 944 | 4. 207 | 4. 478 |
| 34 | 986 | 215 | 452 | 698 | 953 | 216 | 487 |
| 36 | 2. 994 | 223 | 460 | 707 | 961 | 225 | 496 |
| 38 | 3. 001 | 3. 231 | 3. 468 | 3. 715 | 3. 970 | 4. 234 | 4. 506 |
| 40 | 009 | 238 | 477 | 724 | 979 | 243 | 515 |
| 42 | 016 | 246 | 485 | 732 | 987 | 252 | 524 |
| 44 | 3. 024 | 3. 254 | 3. 493 | 3. 740 | 3. 995 | 4. 261 | 4. 533 |
| 46 | 031 | 262 | 501 | 749 | 4. 004 | 269 | 543 |
| 48 | 039 | 270 | 509 | 757 | 4. 013 | 278 | 552 |
| 50 | 3. 046 | 3. 277 | 3. 517 | 3. 765 | 4. 022 | 4. 287 | 4. 561 |
| 52 | 054 | 285 | 525 | 773 | 031 | 296 | 570 |
| 54 | 061 | 293 | 533 | 782 | 040 | 305 | 579 |
| 56 | 3. 069 | 3. 301 | 3. 540 | 3. 790 | 4. 048 | 4. 314 | 4. 589 |
| 58 | 076 | 309 | 549 | 798 | 057 | 323 | 598 |
| 60 | 084 | 317 | 558 | 807 | 066 | 332 | 607 |
| Semidiff. | 4 | 4 | 4 | 4 | 4 | 4 | 4 |

| // | 33 | 34 | 35 | 36 | 37 | 38 | 39 |
|---|---|---|---|---|---|---|---|
| 0 | 4. 607 | 4. 891 | 5. 183 | 5. 483 | 5. 792 | 6. 109 | 6. 435 |
| 2 | 616 | 900 | 193 | 493 | 802 | 120 | 446 |
| 4 | 626 | 910 | 203 | 504 | 813 | 131 | 457 |
| 6 | 635 | 919 | 212 | 514 | 823 | 141 | 468 |
| 8 | 4. 644 | 4. 929 | 5. 222 | 5. 524 | 5. 834 | 6. 152 | 6. 479 |
| 10 | 654 | 939 | 232 | 53[illegible] | 844 | 163 | 490 |
| 12 | 663 | 948 | 242 | 544 | 855 | 174 | 501 |
| 14 | 4. 673 | 4. 958 | 5. 252 | 5. 554 | 5. 865 | 6. 185 | 6. 512 |
| 16 | 682 | 967 | 262 | 565 | 876 | 195 | 523 |
| 18 | 692 | 977 | 272 | 575 | 886 | 206 | 534 |
| 20 | 4. 701 | 4. 987 | 5. 282 | 5. 585 | 5. 897 | 6. 217 | 6. 545 |
| 22 | 710 | 4. 997 | 292 | 595 | 907 | 228 | 556 |
| 24 | 720 | 5. 006 | 302 | 605 | 918 | 239 | 567 |
| 26 | 4. 729 | 5. 016 | 5. 312 | 5. 616 | 5. 928 | 6. 250 | 6. 579 |
| 28 | 739 | 026 | 322 | 626 | 939 | 260 | 590 |
| 30 | 748 | 036 | 332 | 636 | 949 | 271 | 601 |
| 32 | 4. 757 | 5. 045 | 5. 342 | 5. 647 | 5. 960 | 6. 282 | 6. 612 |
| 34 | 767 | 055 | 352 | 657 | 970 | 293 | 624 |
| 36 | 776 | 065 | 362 | 667 | 981 | 303 | 635 |
| 38 | 4. 785 | 5. 074 | 5. 372 | 5. 678 | 5. 991 | 6. 314 | 6. 646 |
| 40 | 795 | 084 | 382 | 688 | 6. 002 | 325 | 657 |
| 42 | 804 | 094 | 392 | 698 | 6. 013 | 336 | 668 |
| 44 | 4. 814 | 5. 104 | 5. 402 | 5. 709 | 6. 023 | 6. 347 | 6. 680 |
| 46 | 823 | 113 | 412 | 719 | 034 | 358 | 691 |
| 48 | 833 | 123 | 422 | 730 | 045 | 369 | 702 |
| 50 | 4. 843 | 5. 133 | 5. 432 | 5. 740 | 6. 056 | 6. 380 | 6. 713 |
| 52 | 852 | 143 | 442 | 750 | 066 | 391 | 724 |
| 54 | 862 | 153 | 452 | 761 | 077 | 402 | 735 |
| 56 | 4. 871 | 5. 163 | 5. 463 | 5. 771 | 6. 088 | 6. 413 | 6. 747 |
| 58 | 881 | 173 | 473 | 782 | 098 | 424 | 758 |
| 60 | 891 | 183 | 483 | 792 | 109 | 435 | 769 |
| Semidiff. | 5 | 5 | 5 | 5 | 5 | 5 | 5 |

| // | ′ 40 | ′ 41 | ′ 42 | ′ 43 | ′ 44 | ′ 45 | ′ 46 |
|---|---|---|---|---|---|---|---|
| 0 | 6. 769 | 7. 112 | 7. 463 | 7. 823 | 8. 191 | 8. 567 | 8. 952 |
| 2 | 781 | 123 | 475 | 835 | 204 | 580 | 965 |
| 4 | 792 | 135 | 487 | 847 | 216 | 593 | 978 |
| 6 | 803 | 146 | 498 | 859 | 229 | 605 | 8. 991 |
| 8 | 6. 815 | 7. 158 | 7. 510 | 7. 871 | 8. 241 | 8. 618 | 9. 004 |
| 10 | 826 | 170 | 522 | 883 | 253 | 631 | 017 |
| 12 | 837 | 181 | 534 | 895 | 265 | 644 | 030 |
| 14 | 6. 849 | 7. 193 | 7. 546 | 7. 907 | 8. 278 | 8. 657 | 9. 043 |
| 16 | 860 | 205 | 558 | 920 | 290 | 670 | 056 |
| 18 | 871 | 216 | 570 | 932 | 303 | 682 | 069 |
| 20 | 6. 882 | 7. 228 | 7. 582 | 7. 944 | 8. 315 | 8. 695 | 9. 082 |
| 22 | 894 | 240 | 594 | 956 | 327 | 708 | 095 |
| 24 | 905 | 251 | 606 | 969 | 340 | 720 | 108 |
| 26 | 6. 917 | 7. 263 | 7. 618 | 7. 981 | 8. 352 | 8. 733 | 9. 122 |
| 28 | 928 | 274 | 630 | 7. 994 | 365 | 746 | 135 |
| 30 | 939 | 286 | 642 | 8. 006 | 378 | 759 | 148 |
| 32 | 6. 951 | 7. 298 | 7. 654 | 8. 018 | 8. 391 | 8. 772 | 9. 161 |
| 34 | 962 | 310 | 666 | 030 | 403 | 784 | 174 |
| 36 | 974 | 321 | 678 | 043 | 416 | 797 | 188 |
| 38 | 6. 985 | 7. 333 | 7. 690 | 8. 055 | 8. 428 | 8. 810 | 9. 201 |
| 40 | 6. 997 | 345 | 702 | 067 | 441 | 823 | 214 |
| 42 | 7. 008 | 357 | 714 | 080 | 453 | 836 | 227 |
| 44 | 7. 020 | 7. 369 | 7. 726 | 8. 092 | 8. 466 | 8. 849 | 9 240 |
| 46 | 031 | 380 | 738 | 104 | 478 | 761 | 254 |
| 48 | 042 | 392 | 750 | 117 | 491 | 874 | 267 |
| 50 | 7. 054 | 7. 404 | 7. 762 | 8. 129 | 8. 504 | 8. 887 | 9. 280 |
| 52 | 065 | 416 | 774 | 141 | 516 | 900 | 293 |
| 54 | 077 | 428 | 786 | 154 | 529 | 913 | 306 |
| 56 | 7. 088 | 7. 439 | 7. 799 | 8. 166 | 8. 541 | 8. 926 | 9. 320 |
| 58 | 100 | 451 | 811 | 179 | 554 | 939 | 333 |
| 60 | 112 | 463 | 823 | 191 | 567 | 952 | 346 |
| Semidiff. | 6 | 6 | 6 | 6 | 6 | 6 | 6 |

| // | 47 | 48 | 49 | 50 | 51 | 52 |
|---|---|---|---|---|---|---|
| 0 | 9. 346 | 9. 748 | 10. 158 | 10. 577 | 11. 005 | 11. 441 |
| 2 | 359 | 762 | 172 | 591 | 020 | 456 |
| 4 | 372 | 775 | 186 | 605 | 034 | 471 |
| 6 | 386 | 789 | 200 | 620 | 049 | 485 |
| 8 | 9. 399 | 9. 802 | 10. 213 | 10. 634 | 11. 063 | 11. 500 |
| 10 | 412 | 816 | 227 | 648 | 077 | 515 |
| 12 | 425 | 829 | 241 | 662 | 092 | 530 |
| 14 | 9. 439 | 9. 843 | 10. 254 | 10. 676 | 11. 106 | 11. 545 |
| 16 | 452 | 856 | 269 | 691 | 120 | 559 |
| 18 | 466 | 870 | 283 | 705 | 135 | 574 |
| 20 | 9. 479 | 9. 884 | 10. 297 | 10. 719 | 11. 149 | 11. 589 |
| 22 | 492 | 897 | 311 | 733 | 164 | 604 |
| 24 | 506 | 911 | 325 | 747 | 178 | 619 |
| 26 | 9. 519 | 9. 925 | 10. 339 | 10. 762 | 11. 193 | 11. 633 |
| 28 | 532 | 938 | 353 | 776 | 208 | 648 |
| 30 | 546 | 952 | 367 | 790 | 221 | 663 |
| 32 | 9. 559 | 9. 966 | 10. 381 | 10. 804 | 11. 237 | 11. 678 |
| 34 | 573 | 979 | 395 | 818 | 251 | 693 |
| 36 | 586 | 9. 993 | 409 | 833 | 266 | 707 |
| 38 | 9. 600 | 10. 006 | 10. 423 | 10. 847 | 11. 280 | 11. 722 |
| 40 | 613 | 10. 020 | 437 | 861 | 295 | 737 |
| 42 | 626 | 10. 034 | 451 | 875 | 310 | 752 |
| 44 | 9. 640 | 10. 048 | 10. 465 | 10. 890 | 11. 324 | 11. 767 |
| 46 | 653 | 061 | 479 | 904 | 339 | 781 |
| 48 | 667 | 075 | 493 | 919 | 354 | 796 |
| 50 | 9. 680 | 10. 089 | 10. 507 | 10. 933 | 11. 368 | 11. 811 |
| 52 | 694 | 103 | 521 | 948 | 383 | 826 |
| 54 | 707 | 117 | 535 | 962 | 397 | 841 |
| 56 | 9. 721 | 10. 130 | 10. 549 | 10. 977 | 11. 412 | 11. 855 |
| 58 | 735 | 144 | 563 | 10. 991 | 426 | 870 |
| 60 | 748 | 158 | 577 | 11. 005 | 441 | 885 |
| Semidiff. | 7 | 7 | 7 | 7 | 7 | 7 |

| // | ′ 53 | ′ 54 | ′ 55 | ′ 56 | ′ 57 | ′ 58 |
|---|---|---|---|---|---|---|
| 0 | 11. 885 | 12. 339 | 12. 799 | 13. 268 | 13. 747 | 14. 233 |
| 2 | 900 | 354 | 814 | 284 | 763 | 249 |
| 4 | 915 | 369 | 830 | 300 | 779 | 266 |
| 6 | 930 | 385 | 845 | 315 | 795 | 282 |
| 8 | 11. 945 | 12. 400 | 12. 861 | 13. 331 | 13. 811 | 14. 308 |
| 10 | 960 | 415 | 876 | 347 | 827 | 315 |
| 12 | 975 | 430 | 892 | 363 | 843 | 331 |
| 14 | 11. 990 | 12. 445 | 12. 907 | 13. 379 | 13. 860 | 14. 348 |
| 16 | 12. 005 | 461 | 923 | 394 | 876 | 364 |
| 18 | 12. 020 | 476 | 939 | 410 | 892 | 380 |
| 20 | 12. 035 | 12. 491 | 12. 954 | 13. 426 | 13. 908 | 14. 397 |
| 22 | 050 | 506 | 12. 970 | 442 | 924 | 413 |
| 24 | 065 | 522 | 12. 985 | 458 | 940 | 430 |
| 26 | 12. 081 | 12. 537 | 13. 001 | 13. 474 | 13. 957 | 14. 446 |
| 28 | 096 | 553 | 017 | 490 | 973 | 463 |
| 30 | 111 | 568 | 032 | 506 | 13. 989 | 479 |
| 32 | 12. 126 | 12. 583 | 13. 047 | 13. 522 | 14. 005 | 14. 496 |
| 34 | 141 | 599 | 063 | 538 | 021 | 513 |
| 36 | 157 | 614 | 078 | 554 | 038 | 530 |
| 38 | 12. 172 | 12. 639 | 13. 094 | 13. 570 | 14. 054 | 14. 546 |
| 40 | 187 | 645 | 110 | 586 | 070 | 562 |
| 42 | 202 | 660 | 126 | 602 | 086 | 579 |
| 44 | 12. 217 | 12. 676 | 13. 142 | 13. 618 | 14. 103 | 14. 595 |
| 46 | 233 | 691 | 157 | 634 | 119 | 611 |
| 48 | 248 | 707 | 173 | 650 | 135 | 628 |
| 50 | 12. 263 | 12. 722 | 13. 189 | 13. 666 | 14. 151 | 14. 645 |
| 52 | 278 | 737 | 205 | 682 | 167 | 661 |
| 54 | 293 | 753 | 221 | 698 | 184 | 678 |
| 56 | 12. 309 | 12. 768 | 13. 237 | 13. 715 | 14. 200 | 14. 695 |
| 58 | 324 | 784 | 252 | 731 | 226 | 711 |
| 60 | 339 | 799 | 268 | 747 | 233 | 728 |
| Semidiff. | 8 | 8 | 8 | 8 | 8 | 8 |

| // | ′ 59 | ° ′ 1. 0 | ° ′ 1. 1 | ° ′ 1. 2 | ° ′ 1. 3 | ° ′ 1. 4 |
|---|---|---|---|---|---|---|
| 0 | 14. 728 | 15. 232 | 15. 744 | 16. 264 | 16. 793 | 17. 330 |
| 2 | 745 | 249 | 761 | 282 | 811 | 348 |
| 4 | 761 | 266 | 778 | 299 | 829 | 366 |
| 6 | 778 | 283 | 796 | 317 | 846 | 384 |
| 8 | 14. 795 | 15. 300 | 15. 813 | 16. 334 | 16. 864 | 17. 402 |
| 10 | 812 | 317 | 830 | 352 | 882 | 420 |
| 12 | 829 | 334 | 847 | 370 | 900 | 438 |
| 14 | 14. 846 | 15. 351 | 15. 864 | 16. 387 | 16. 918 | 17. 456 |
| 16 | 862 | 368 | 882 | 405 | 935 | 474 |
| 18 | 879 | 385 | 899 | 422 | 953 | 492 |
| 20 | 14. 896 | 15. 402 | 15. 916 | 16. 440 | 16. 971 | 17. 511 |
| 22 | 913 | 419 | 933 | 458 | 16. 989 | 529 |
| 24 | 930 | 436 | 951 | 475 | 17. 007 | 547 |
| 26 | 14. 946 | 15. 453 | 15. 968 | 16. 492 | 17. 024 | 17. 565 |
| 28 | 963 | 470 | 15. 985 | 510 | 042 | 583 |
| 30 | 980 | 487 | 16. 003 | 528 | 060 | 602 |
| 32 | 14. 997 | 15. 504 | 16. 020 | 16. 546 | 17. 078 | 17. 620 |
| 34 | 15. 014 | 521 | 038 | 563 | 096 | 638 |
| 36 | 15. 030 | 538 | 055 | 581 | 114 | 657 |
| 38 | 15. 047 | 15. 555 | 16. 072 | 16. 598 | 17. 132 | 17. 675 |
| 40 | 064 | 572 | 090 | 616 | 150 | 693 |
| 42 | 081 | 589 | 107 | 634 | 168 | 711 |
| 44 | 15. 098 | 15. 606 | 16. 125 | 16. 651 | 17. 186 | 17. 729 |
| 46 | 114 | 624 | 142 | 669 | 204 | 748 |
| 48 | 131 | 641 | 159 | 686 | 222 | 766 |
| 50 | 15. 148 | 15. 658 | 16. 177 | 16. 704 | 17. 240 | 17. 784 |
| 52 | 165 | 675 | 194 | 722 | 258 | 802 |
| 54 | 182 | 692 | 212 | 740 | 276 | 821 |
| 56 | 15. 198 | 15. 710 | 16. 229 | 16. 757 | 17. 294 | 17. 839 |
| 58 | 215 | 727 | 246 | 775 | 312 | 857 |
| 60 | 232 | 744 | 264 | 793 | 330 | 876 |
| Semidiff. | 8 | 9 | 9 | 9 | 9 | 9 |

| // | ° ′ I. 5 | ° ′ I. 6 | ° ′ I. 7 | ° ′ I. 8 | ° ′ I. 9 | ° ′ I.10 |
|---|---|---|---|---|---|---|
| 0 | 17. 876 | 18. 431 | 18. 993 | 19. 564 | 20. 144 | 20. 732 |
| 2 | 894 | 449 | 19. 012 | 583 | 163 | 752 |
| 4 | 913 | 467 | 031 | 602 | 183 | 771 |
| 6 | 931 | 486 | 050 | 622 | 202 | 791 |
| 8 | 17. 949 | 18. 505 | 19. 069 | 19. 641 | 20. 222 | 20. 811 |
| 10 | 968 | 524 | 088 | 660 | 241 | 831 |
| 12 | 17. 986 | 542 | 107 | 679 | 261 | 851 |
| 14 | 18. 005 | 18. 561 | 19. 126 | 19. 698 | 20. 280 | 20. 870 |
| 16 | 023 | 579 | 145 | 718 | 300 | 890 |
| 18 | 042 | 598 | 164 | 737 | 319 | 910 |
| 20 | 18. 060 | 18. 617 | 19. 183 | 19. 756 | 20. 339 | 20. 930 |
| 22 | 078 | 636 | 202 | 775 | 359 | 950 |
| 24 | 097 | 655 | 221 | 794 | 378 | 970 |
| 26 | 18. 115 | 18. 673 | 19. 240 | 19. 814 | 20. 398 | 20. 990 |
| 28 | 133 | 692 | 259 | 833 | 417 | 21. 009 |
| 30 | 152 | 711 | 278 | 853 | 437 | 21. 029 |
| 32 | 18. 171 | 18. 730 | 19. 297 | 19. 872 | 20. 457 | 21. 049 |
| 34 | 189 | 749 | 316 | 891 | 476 | 069 |
| 36 | 208 | 767 | 335 | 911 | 496 | 089 |
| 38 | 18. 226 | 18. 786 | 19. 354 | 19. 930 | 20. 515 | 21. 109 |
| 40 | 245 | 805 | 373 | 950 | 535 | 129 |
| 42 | 264 | 824 | 392 | 969 | 555 | 149 |
| 44 | 18. 282 | 18. 843 | 19. 411 | 19. 989 | 20. 574 | 21. 169 |
| 46 | 301 | 861 | 430 | 20. 008 | 594 | 189 |
| 48 | 319 | 880 | 449 | 20. 028 | 613 | 209 |
| 50 | 18. 338 | 18. 899 | 19. 468 | 20. 047 | 20. 633 | 21. 229 |
| 52 | 356 | 918 | 487 | 067 | 653 | 249 |
| 54 | 375 | 937 | 506 | 086 | 672 | 269 |
| 56 | 18. 394 | 18. 955 | 19. 526 | 20. 105 | 20. 692 | 21. 289 |
| 58 | 413 | 974 | 545 | 125 | 712 | 309 |
| 60 | 431 | 993 | 564 | 144 | 732 | 329 |
| Semidiff. | 9 | 9 | 9 | 20 | 10 | 10 |

| | o / I.11 | o / I. 12 | o / I. 13 | o / I. 14 | o / I. 15 | o / I. 16 |
|---|---|---|---|---|---|---|
| // | | | | | | |
| 0 | 21. 329 | 21. 934 | 22. 548 | 23. 170 | 23. 800 | 24. 439 |
| 2 | 349 | 955 | 569 | 191 | 821 | 461 |
| 4 | 369 | 975 | 589 | 212 | 842 | 482 |
| 6 | 389 | 21. 995 | 610 | 233 | 864 | 504 |
| 8 | 21. 409 | 22. 016 | 22. 630 | 23. 253 | 23. 885 | 24. 525 |
| 10 | 429 | 036 | 651 | 274 | 906 | 546 |
| 12 | 449 | 056 | 671 | 295 | 927 | 568 |
| 14 | 21. 470 | 22. 077 | 22. 692 | 23. 316 | 23. 948 | 24. 589 |
| 16 | 490 | 097 | 713 | 337 | 970 | 611 |
| 18 | 510 | 118 | 733 | 358 | 991 | 632 |
| 20 | 21. 530 | 22. 138 | 22. 754 | 23. 379 | 24. 012 | 24. 654 |
| 22 | 550 | 158 | 775 | 400 | 033 | 676 |
| 24 | 570 | 179 | 796 | 421 | 2 . 054 | 698 |
| 26 | 21. 590 | 22. 199 | 22. 816 | 23. 442 | 24. 076 | 24. 719 |
| 28 | 611 | 220 | 837 | 463 | 097 | 741 |
| 30 | 631 | 240 | 858 | 484 | 118 | 762 |
| 32 | 21. 651 | 22. 260 | 22. 879 | 23. 505 | 24. 140 | 24. 784 |
| 34 | 671 | 281 | 900 | 526 | 161 | 805 |
| 36 | 692 | 301 | 920 | 547 | 183 | 827 |
| 38 | 21. 712 | 22. 322 | 22. 941 | 23. 568 | 24. 204 | 24. 849 |
| 40 | 732 | 342 | 22. 962 | 589 | 225 | 870 |
| 42 | 752 | 363 | 22. 983 | 610 | 247 | 892 |
| 44 | 21. 773 | 22. 383 | 23. 004 | 23. 631 | 24. 268 | 24. 914 |
| 46 | 793 | 404 | 025 | 652 | 290 | 935 |
| 48 | 813 | 424 | 046 | 673 | 311 | 957 |
| 50 | 21. 833 | 22. 445 | 23. 066 | 23. 694 | 24. 332 | 24. 978 |
| 52 | 853 | 466 | 087 | 715 | 354 | 25. 000 |
| 54 | 874 | 486 | 108 | 736 | 375 | 25. 022 |
| 56 | 21. 894 | 22. 507 | 23. 129 | 23. 758 | 24. 397 | 25. 043 |
| 58 | 914 | 528 | 150 | 779 | 418 | 065 |
| 60 | 934 | 548 | 170 | 800 | 439 | 087 |
| Semidiff. | 10 | 10 | 10 | 10 | 11 | 11 |

| | ° ′ 1.17 | ° ′ 1.18 | ° ′ 1. 19 | ° ′ 1.20 | ° ′ 1.21 | ° ′ 1.22 |
|---|---|---|---|---|---|---|
| ″ | | | | | | |
| 0 | 25. 087 | 25. 743 | 26. 407 | 27. 080 | 27. 763 | 28. 452 |
| 2 | 109 | 765 | 429 | 103 | 786 | 475 |
| 4 | 130 | 787 | 452 | 125 | 809 | 498 |
| 6 | 152 | 809 | 474 | 148 | 831 | 521 |
| 8 | 25. 174 | 25. 831 | 26. 496 | 27. 170 | 27. 854 | 28. 544 |
| 10 | 196 | 853 | 519 | 193 | 877 | 567 |
| 12 | 218 | 875 | 541 | 215 | 900 | 590 |
| 14 | 25. 240 | 25. 897 | 26. 564 | 27. 238 | 27. 923 | 28. 613 |
| 16 | 261 | 919 | 586 | 260 | 946 | 637 |
| 18 | 283 | 941 | 609 | 283 | 969 | 660 |
| 20 | 25. 305 | 25. 963 | 26. 631 | 27. 306 | 27. 992 | 28. 683 |
| 22 | 327 | 25. 985 | 654 | 329 | 28. 015 | 706 |
| 24 | 349 | 26. 007 | 676 | 352 | 28. 038 | 729 |
| 26 | 25. 370 | 26. 030 | 26. 699 | 27. 375 | 28. 061 | 28. 753 |
| 28 | 392 | 052 | 721 | 397 | 084 | 776 |
| 30 | 414 | 074 | 743 | 420 | 107 | 799 |
| 32 | 25. 436 | 26. 096 | 26. 765 | 27. 443 | 28. 130 | 28. 822 |
| 34 | 458 | 118 | 788 | 466 | 153 | 845 |
| 36 | 479 | 141 | 811 | 488 | 176 | 869 |
| 38 | 25. 501 | 26. 163 | 26. 833 | 27. 511 | 28. 199 | 28. 892 |
| 40 | 523 | 185 | 855 | 534 | 222 | 915 |
| 42 | 545 | 207 | 878 | 557 | 245 | 938 |
| 44 | 25. 567 | 26. 229 | 26. 901 | 27. 580 | 28. 268 | 28. 961 |
| 46 | 589 | 252 | 923 | 602 | 291 | 28. 985 |
| 48 | 611 | 274 | 945 | 625 | 314 | 29. 009 |
| 50 | 25. 633 | 26. 296 | 26. 967 | 27. 648 | 28. 337 | 29. 032 |
| 52 | 655 | 318 | 26. 990 | 671 | 360 | 056 |
| 54 | 677 | 340 | 27. 012 | 694 | 383 | 079 |
| 56 | 25. 699 | 26. 363 | 27. 035 | 27. 717 | 28. 406 | 29. 102 |
| 58 | 721 | 385 | 057 | 740 | 429 | 126 |
| 60 | 743 | 407 | 080 | 763 | 452 | 149 |
| Semidiff. | 11 | 11 | 11 | 11 | 11 | 12 |

| // | ° ′ I. 23 | ° ′ I. 24 | ° ′ I. 25 | ° ′ I. 26 | ° ′ I. 27 | ° ′ I. 28 |
|---|---|---|---|---|---|---|
| 0 | 29. 149 | 29. 855 | 30. 570 | 31. 294 | 32. 027 | 32. 768 |
| 2 | 173 | 878 | 594 | 318 | 051 | 793 |
| 4 | 196 | 902 | 618 | 343 | 076 | 818 |
| 6 | 220 | 925 | 642 | 367 | 101 | 842 |
| 8 | 29. 243 | 29. 949 | 30. 666 | 31. 391 | 32. 125 | 32. 867 |
| 10 | 266 | 29. 973 | 690 | 416 | 150 | 892 |
| 12 | 290 | 29. 997 | 714 | 440 | 175 | 917 |
| 14 | 29. 313 | 30. 020 | 30. 738 | 31. 465 | 32. 199 | 32. 942 |
| 16 | 337 | 044 | 762 | 489 | 224 | 967 |
| 18 | 360 | 068 | 786 | 513 | 248 | 32. 992 |
| 20 | 29. 383 | 30. 092 | 30. 810 | 31. 538 | 32. 273 | 33. 017 |
| 22 | 407 | 116 | 834 | 562 | 297 | 042 |
| 24 | 430 | 140 | 858 | 587 | 322 | 067 |
| 26 | 29. 454 | 30. 163 | 30. 883 | 31. 611 | 32. 346 | 33. 092 |
| 28 | 477 | 187 | 907 | 635 | 371 | 117 |
| 30 | 501 | 211 | 931 | 660 | 396 | 142 |
| 32 | 29. 524 | 30. 235 | 30. 955 | 31. 684 | 32. 421 | 33. 167 |
| 34 | 548 | 259 | 30. 980 | 709 | 446 | 192 |
| 36 | 571 | 282 | 31. 004 | 733 | 470 | 217 |
| 38 | 29. 595 | 30. 306 | 31. 028 | 31. 758 | 32. 495 | 33. 242 |
| 40 | 619 | 330 | 052 | 782 | 520 | 267 |
| 42 | 642 | 354 | 077 | 806 | 545 | 292 |
| 44 | 29. 666 | 30. 378 | 31. 101 | 31. 831 | 32. 569 | 33. 317 |
| 46 | 690 | 402 | 125 | 855 | 594 | 342 |
| 48 | 713 | 426 | 149 | 880 | 619 | 367 |
| 50 | 29. 737 | 30. 450 | 31. 173 | 31. 904 | 32. 644 | 33. 392 |
| 52 | 760 | 474 | 197 | 928 | 669 | 417 |
| 54 | 784 | 498 | 221 | 953 | 693 | 442 |
| 56 | 29. 807 | 30. 522 | 31. 245 | 31. 978 | 32. 718 | 33. 467 |
| 58 | 831 | 546 | 270 | 32. 002 | 743 | 492 |
| 60 | 855 | 570 | 294 | 32. 027 | 768 | 517 |
| Semidiff. | 12 | 12 | 12 | 12 | 12 | 12 |

| // | ° ′ I. 29 | ° ′ I. 30 | ° ′ I. 31 | ° ′ I. 32 | ° ′ I. 33 | ° ′ I. 34 |
|---|---|---|---|---|---|---|
| 0 | 33. 517 | 34. 274 | 35. 030 | 35. 814 | 36. 597 | 37. 388 |
| 2 | 543 | 299 | 065 | 840 | 623 | 414 |
| 4 | 568 | 325 | 090 | 866 | 650 | 441 |
| 6 | 593 | 350 | 116 | 892 | 676 | 467 |
| 8 | 33. 618 | 34. 375 | 35. 141 | 35. 918 | 36. 702 | 37. 494 |
| 10 | 643 | 401 | 167 | 944 | 728 | 521 |
| 12 | 668 | 426 | 193 | 970 | 754 | 547 |
| 14 | 33. 693 | 34. 452 | 35. 218 | 35. 996 | 36. 780 | 37. 574 |
| 16 | 719 | 477 | 244 | 36. 022 | 807 | 601 |
| 18 | 744 | 502 | 270 | 36. 048 | 833 | 628 |
| 20 | 33. 769 | 34. 528 | 35. 296 | 36. 074 | 36. 859 | 37. 654 |
| 22 | 794 | 553 | 322 | 100 | 885 | 680 |
| 24 | 819 | 579 | 348 | 126 | 912 | 707 |
| 26 | 33. 845 | 34. 604 | 35. 373 | 36. 152 | 36. 938 | 37. 733 |
| 28 | 870 | 629 | 399 | 178 | 965 | 760 |
| 30 | 895 | 655 | 425 | 204 | 36. 991 | 787 |
| 32 | 33. 920 | 34. 681 | 35. 451 | 36. 230 | 37. 017 | 37. 813 |
| 34 | 945 | 706 | 477 | 257 | 044 | 840 |
| 36 | 971 | 732 | 502 | 283 | 070 | 866 |
| 38 | 33. 996 | 34. 758 | 35. 528 | 36. 309 | 37. 097 | 37. 893 |
| 40 | 34. 021 | 783 | 554 | 335 | 123 | 920 |
| 42 | 34. 046 | 809 | 580 | 361 | 149 | 947 |
| 44 | 34. 072 | 34. 834 | 35. 606 | 36. 388 | 37. 176 | 37. 973 |
| 46 | 097 | 860 | 632 | 414 | 202 | 38. 000 |
| 48 | 121 | 885 | 658 | 440 | 228 | 38. 027 |
| 50 | 34. 147 | 34. 911 | 35. 684 | 36. 466 | 37. 255 | 38. 054 |
| 52 | 173 | 936 | 710 | 492 | 281 | 081 |
| 54 | 198 | 962 | 736 | 519 | 308 | 108 |
| 56 | 34. 223 | 34. 987 | 35. 762 | 36. 545 | 37. 334 | 38. 134 |
| 58 | 249 | 35. 013 | 788 | 571 | 361 | 161 |
| 60 | 274 | 35. 039 | 814 | 597 | 388 | 188 |
| Semidiff. | 131 | 13 | 13 | 13 | 13 | 13 |

| | ° / | ° / | ° / | ° / | ° / | ° / |
|---|---|---|---|---|---|---|
| // | 1. 35 | 1. 36 | 1. 37 | 1. 38 | 1. 39 | 1. 40 |
| 0 | 38. 188 | 38. 996 | 39. 813 | 40. 638 | 41. 472 | 42. 314 |
| 2 | 215 | 39. 023 | 840 | 666 | 500 | 342 |
| 4 | 242 | 050 | 868 | 693 | 528 | 370 |
| 6 | 268 | 078 | 895 | 720 | 556 | 398 |
| 8 | 38. 295 | 39. 105 | 39. 923 | 40. 748 | 41. 584 | 42. 426 |
| 10 | 322 | 132 | 950 | 776 | 612 | 455 |
| 12 | 349 | 159 | 39. 978 | 804 | 640 | 483 |
| 14 | 38. 376 | 39. 186 | 40. 005 | 40. 832 | 41. 668 | 42. 511 |
| 16 | 402 | 214 | 033 | 859 | 696 | 539 |
| 18 | 429 | 241 | 060 | 887 | 724 | 567 |
| 20 | 38. 456 | 39. 268 | 40. 087 | 40. 915 | 41. 752 | 42. 596 |
| 22 | 483 | 295 | 114 | 943 | 780 | 624 |
| 24 | 510 | 323 | 142 | 971 | 808 | 653 |
| 26 | 38. 537 | 39. 350 | 40. 169 | 40. 998 | 41. 836 | 42. 681 |
| 28 | 564 | 377 | 197 | 41. 026 | 864 | 709 |
| 30 | 591 | 404 | 224 | 054 | 892 | 738 |
| 32 | 38. 618 | 39. 431 | 50. 251 | 41. 082 | 41. 920 | 42. 766 |
| 34 | 645 | 458 | 279 | 110 | 948 | 795 |
| 36 | 672 | 485 | 306 | 137 | 41. 976 | 823 |
| 38 | 38. 699 | 39. 513 | 40. 334 | 41. 165 | 42. 004 | 42. 851 |
| 40 | 726 | 540 | 362 | 193 | 032 | 880 |
| 42 | 753 | 567 | 389 | 221 | 060 | 908 |
| 44 | 38. 780 | 39. 595 | 40. 417 | 41. 249 | 42. 088 | 42. 937 |
| 46 | 807 | 622 | 444 | 276 | 117 | 965 |
| 48 | 834 | 649 | 472 | 304 | 145 | 42. 993 |
| 50 | 38. 861 | 39. 676 | 40. 500 | 41. 332 | 42. 173 | 43. 022 |
| 52 | 888 | 703 | 527 | 360 | 201 | 050 |
| 54 | 915 | 730 | 555 | 388 | 229 | 079 |
| 56 | 38. 942 | 39. 758 | 40. 583 | 41. 416 | 42. 258 | 43. 107 |
| 58 | 969 | 785 | 610 | 444 | 286 | 136 |
| 60 | 996 | 813 | 638 | 472 | 314 | 165 |
| Semidiff. | 13 | 14 | 14 | 14 | 14 | 14 |

FINIS
ANTILOGARITHMORUM
ET OMNIUM
TABULARUM.

# APPENDIX DE PECULIARI TABULÆ PRIMÆ USU extra Trigonometriam.

PROBLEMA I. Datis duobus numeris tertium continuè proportionalem invenire.

*A logarithmo Secundi duplicato subtractus logarithmus Primi relinquit logarithmum Tertii quæsiti.*

Dentur 3. & 9. 9. Logar. 701312
duplic. 1402624
3. Logar. 811173 Subtr.
591451 (27. Tert. quæsitus.

Item dentur 342. & 456.
456. Logar. 308785
duplic. 617570
342. Logar. 337553 S.
28001 7 (608. Tert. quæsit.

*Si Logarithmus residuus non reperitur in Tabula exactè, Tertius proportionalis habet appendiculam fractionem, inquirendam ut in Præcognitis docuimus.*

Ut: 10. 15. 15. Log. 650129
dupl. 1300458
10. Log. 690775 S.
609683
Proximè major in Tabula 611930 (22.
Diff. 2247

Diff. logarithmi prox. majoris & seq. 4445. dat. 10
Ergo pars prop. 5. scrupp.
Tertiꝰ itaque proportionalis est 22. 5 seu 22 cum semiss.

*Si subtrahendus fuerit major reliquo duplicato, addatur duplicato aliquis horum logarithmorum, quorum etiam in Præcognitis facta mentio: 230258. 460517. 690775. cum cautione, post subtractionem, ibidem indicata.*

Veluti, si dentur 1. & 120.

120. Logar. 442285
dupl. 884570. minor subtrahendo.
Adde 230258

1114828
1. Log. 921034 Subtr.

193794 (1440. Igitur Tert. totus 14400.

Item dentur 1. & 105.

105. Logar. 455638
dupl. 911276 major subtrahendo.
230258

1141534.
1. Log. 921034. S

220500
Proxime major 220545 (1102. Tertius mutilus.

Diff. 45. Diff. Logarithmi proximè majoris & minoris 91. dat 10.
Igitur pars prop. 5. Et Tert. quæsit. integer 11015

*Si post factam partis proport. inquisitionem aliquid è divisione remanserit notabile, numeratorem repræsentat fractionis Tertio supra notas integras adhærentis, cujus denominator est Divisor, sive differentia logarithmorum proximè majoris & minoris.*

## II. Datis duobus Medium proportionalem invenire.

*Datorum logarithmi addantur: Summæ semissis est logarithmus Medii quæsiti.*

Vt: 3. Log. 811173.
27. Log. 591450.

Summ. 1402623
Semiss. 701312 (9. Medius quæsitus.

Item

Item: 342. Log. 337553
608. Log. 280017

617570
308785 ( 456. Medius quæsitus

*Si datorum Major excedat numerum* 10000 *sive myriadem, curtetur unâ vel pluribus notis finalibus, donec residuæ fiant myriade pauciores. Harum logarithmus pro ratione resectarum finalium (nisi illæ fuerint nudæ cifræ sive 0) limitetur, vt in Præcognitis ostensum est. Logarithmus (limitatus si opus est,) addatur logarithmo Dati minoris:*

*Si à dato resectæ fuerint notæ finales* { *una,* / *duæ,* / *tres,* / *quatuor* } *subtrahe* { 230258 / 460517 / 690775 / 921034 } *A summa, Residui demũ Semissis est logar. quæsiti*

Ut si dentur 1. & 14400.
14400. Log. 193794. nullâ hic limitatione opus.
1. Log. 921034

1114828
Subtr. 230258

Resid. 884570.
Semiss. 442285 ( 120. Medius quæsitus.

Item: 2. & 23328.
Curtati 2332. Log. 145586. Diff. á seq. 43. dat 10.
Igr abscissus 8. dat 34

Log. limitatus 145552
2. Logar. 851719

997271
Subtr. 230258

767013
383506 (216. Medius quæsitus.

Item: 1. & 401956.
Curtati 4019. Log. 91154. Diff. á seq. 24 dat 100.
Igr abscissæ 28 dant 13

Log limitatus 91141
1. Logar. 921034

1012175
Subtr. 460517

551658
275829. (634. Med. quæsitus.

*Quid autem, si datorum uterque sit major myriade? Tunc uterq; etiam notâ vel notis finalibus decurtetur (quot notis unus, totidem & alter) & constituatur logarithmus utriusq; limitatus. Sed subtractione numerorum 230258. 460517. etc. tunc non est opus. Veruntamen semissis summæ præbet numerum absolutum (vice Medii proportionalis) tot notis, quot uterq; Datorum curtatus est, finalibus mutilam; quæ propterea conquirantur. vt, si dentur* 12000 & 27000

1200, Logar. 212026. Limitatione hic
2700. Logar. 130933 nulla opus.

342959
171479½ (1800. Itaq; Medi° prop.
(integer est 18000.

Item : 12448. & 28008.
1244. Logar. 208424. Diff. á seq. 80.
P. prop. 64.

Log. limitatus 208360.

2800. Log. 127197. Diff. á seq. 36.
P. prop. 29

Log. limitatus 127268

Summ. logg. lim. 335628
Semiss. 167814
Prox. major 167824 (1867

diff. 10. Different. logarith. proximè
majoris & minoris 53, dat 10.
Ergo pars prop. 2 ferè. Itaq; Medius proportionalis integer est 18672.

## III. Datis duobus, duos medios proportionales invenire.

*Minoris* } *Logarithmus duplicat° addatur logarithmo* { *Majoris* } *Summæ Triens est logarithmus Medii quæsiti* { *Min.*
*Majoris* } { *Minoris* } { *Maj.*

Sunto

Sunto dati 40. & 135.

| | |
|---|---|
| 40. Logar. | 552146 |
| dupl. | 1104292 |
| 135. Logar. | 430506) |
| Summa | 1534798 |
| Triens | 511599 (60. Mediorum Minor. |
| 135. Logar. | 430506 |
| dupl. | 861012) |
| 40. Logar. | 552146) |
| Summa | 1413158 |
| Triens | 471053 (90. Mediorum Major. |

*Si datorum Major excedat numerum* 10000 *sive Myriadem, curtetur unâ vel pluribus notis finalibus ut Problemate antecedente, & constituatur ejus logarithmus (nisi meræ* 0 *sint resectæ) limitatus. Tum à Summa logarithmorum (unius simplicis, alterius duplicati)*

Pro acquirendo Medio Minori: Majori:

*Si curtatio facta sit notis finalibus* { *una,* / *duab*ᵒ } *Subtrahatur* { 230258. 460517. / 460517. 921034.

*Residui demum triens est logarithmus Medii quæsiti.*

Dentur primùm 3 & 81000.

| | |
|---|---|
| 3. Log. 811173 | 8100. Log. 21072 |
| dupl. 1622346) | 42144) |
| 8100. Log. 21072) | 3. Log. 811173) |
| Summ. 1643418 | 853317 |
| Subtr. 230258 | Subt. 460517 |
| Resid. 1413160 | 392800 |
| Triens 471053 (90. Minor. | 130933 (2700 |

Item dentur 45. & 3280. (Major.

| | |
|---|---|
| 45. Log. 540368 | 3280 Log. 111474 |
| dupl. 1080736) | limit. 111459 |
| 3280. Log. 111474) | dupl. 222918) |
| limit. 111459) | 45. log. 540368) |
| 1192195 | 763286 |
| Subt. 230258 | Subt 460517 |
| 961937 | 302769 (jor. |
| 320646 (405. Minor. | 100923 (3645 Ma- |

*Fit autem interdum, ut grandiorum proportionalium numerorum non tantum maximus, sed & Mediorum major, excedat myriadem, & tamen, utrum excessurus sit, è datis extremis non ita facilè colligatur. Itaq; tutius est, dato extremo grandiori primum investigare Medium Minorem: ac deinde ex hoc & dato extremo Minori, Mediorum Majorem, tanquam tertium proportionalem, per Probl. 1.*

Vt si dentur 405. & 295245.

2952. Log. 122010. Diff. à seq. 34
Igitur P. prop. 15

Log. limitat. 121995
405. Log. 320645
dupl. 641290

Summa 763285
Subtr. 460517 quia duæ finales resectæ.

302768
100923 fere (3645. Med. Minor.

Porrò per probl. 1. —100923
dupl. 201846 minor subtrahendo:
Igitur adde 230258

432104
405. Log. 320645 subtr.

1114595
Proximè major 1114743 (280

Diff. 15. Different. proximè
majoris & minoris 31.

Igitur p. prop. 5 apponenda. Adeoq; integer Medius proportionalis major est 32805.

## IV. Radicem Quadratam extrahere.

*Si datus quadratus sit minor myriade sive 10000: Logarithmus ejus addatur logarithmo Vnitatis; Summæ semissis est logarithmus Radicis quæsitæ. per Probl. 2.*

*Numerus enim quilibet est medius proportionalis inter unitatem & inter suum quadratum.*

Detur

| Detur 784. | Detur 8836 |
|---|---|
| 1. Log. 921034 | 1. Log. 921034 |
| 784. Log. 254593 | 8836. Log. 12374 |
| 1175627 | 933408 |
| 587813 (28. R. quæsit. | 466704 (94. R. quæs. |

*Atque hæc quidem expeditissima sunt, quandiu datus quadratus non excedit* 10000. *Sed cum plerunque detur major, cautiones observandæ sunt speciales. Nimirum*

1. *Numerus datus curtetur unâ vel, si opus sit, pluribus notis finalibus, donec reliquæ sint myriade minores. Earumdemque reliquarum excerptus logarithmus pro ratione abscissarum per part. proport. limitetur, ut in Probl. antecedentibus. Qua tamen limitatione (quod jam sæpius dictum) non est opus, si abscissæ finales sint meræ cifræ sive* 0. 00. 000. *etc.*

2. *A summa logarithmorum (logarithmi scilicet Vnitatis, & logarithmi, si opus sit, limitati) ante dimidiationem subtrahatur*

| | | |
|---|---|---|
| 230258 | | una, |
| 460517 | *Si resectæ sint notæ finales* | duæ, |
| 690775 | | tres. *Residui demũ semissis erit Logarithmus Radicis quæsitæ.* |

*Si resectæ fuerint notæ quatuor, à summa Logarithmorum subtrahi deberent* 921034. *sed cum hic sit logarithmus unitatis, adeoque tantundem adderetur, quantum vicissim subtraheretur; simpliciter Dati numeri quadrati logarithmus (limitatus, si opus sit) dimidietur, & proveniet logarithmus Radicis quæsitæ.*

*Si resectæ fuerint finales* { *quinq;* / *sex;* } *subtrahatur à logarithmor. summa* { 690775 / 460517 } *Residui semissis erit logarithm. quæsitæ Radicis, sed* { *unâ* / *duabus* } *notis finalibus mutilae: quae propterea per part. prop. acquirendæ & apponendae, velut in exemplis postremis Probl.* 1. *&* 2.

*Iam itaq; in omnibus exemplis, quibus datus numerus excedit numerum* 10000, *adeoq; una vel plures notæ finales resecandæ sunt (excepto unico casu, quando* 4 *notæ resecantur) cum addendus veniat logarithmus (unitatis)* 921034, *& à summa vicissim aliquis* 5. *numerorum supra præscriptorum detrahendus; sequitur, compendiosam fore rationem, si ad logarithmum (limitatum, si opus) dati numeri quadrati simpliciter addatur differentia logarithmi* 5. *præscriptorum conveniẽtis & logarithmi Vnitatis. Proinde regula compendiosior extrahendæ radicis numerorum myriade majorum hæc esto:*

*Si*

*Si datus quadratus excedat numerum* 10000, *adeoq;*

*Sit curtã dus notis finalibus*

- *unâ* ; *duabus*; *tribus* ; *quatuor*; *quinque* *sex* ; — *Adde curtati logarithmo(limitato si op⁹)* 690775 460517 230258 — *Summę semissis est Logarithmus Rad. quęsit.*
- *logarithmi semisis est logarithmus R. quaesit.*
- *adde logarithmo (limitato si opus)* 230258 460517 — *summæ semisis*

*est logarithmus Radicis mutilæ notis finalibus* { *unâ* / *duabus* } *per partem proportion. integrandæ.*

*Exempla*

Dat⁹ 32400.
3240. Log. 112701
690775
803476
401738( 180 R.

Datus 28224.
2822. Log. 126513. diff. 36
p. prop. 14
Log. limitat. 126499
690775
817274
408637(168. R

nullâ hic opus limitatione logarithmi, cum datus habeat in fine resectam o.

Datus 409600
4096. Log. 89256
460517
549773
274887(640 R.

Datus 401956
4019. Log. 91154. diff. 24
p. prop. 13
91141
460517
551658
275829(634. R.

neq; hîc opus limitatione, cum resectæ tantum sint oo.

Datus sit 2458614.
2458. Log. 140322. Diff. 40. multipl. in 614.
p. prop. 24
140298
230258
370556
185278(1568. R. quæsita.

Datus sit 96707556.
9670. Log. — 3356. Diff. 11. multipl. in 7556
p. prop. 8
3348
1674(9834. R. quæsita.

Esto

Esto datus 217090756.

2170. Log. 152786. Diff. 46. mult. in 90756.

p. prop. 42

152744
230258

383002
191501

Proxime major 191528 (1473. R. mutila.

Diff. 68 - dat 10 - quid Diff. 27. f. 4. Ergo R. integra 14734.

Esto deniq; datus 27282862 89

2728. Log. 129900. Diff. 36. mult. in 286289.

p. prop. 10

129890
460517

590407
295203

Prox. major 295267 (522. R. mutila duabus notis.

191 —— 100 —— 64. f. 33. Ergo R. integra 52233.

*Atq; hæc omnia etsi propriè tantum numeris verè quadratis ad amussim conveniunt, tamen etiam in surdis locum habent, si modò cogitetur de fractione per inquisitam partem proportionalem radici appendenda.*

Exempli gratia detur Surdus 5600.

5600. Logar. 57982
1. Logar. 921034

979016
489508

Proxime major 490627 (74.

Diff. 1119.

Differentia logarithmi proxime majoris & prox. minoris est 1342. Si itaque desideretur fractio in particulis decimis, fiat ut 1342 ad 10. sic 1119 ad par. prop. 8, ut ita radix veræ proxima sit 74 cum 8 particulis decimis seu 4 quintis. Et tantundem etiam reperies, operando per extractionem radicis vulgarem.

In

*In exemplis, quibus decurtantur à Dato & finales, operatione finitâ ad fractionem in decimis habendam pro* 10 *(medio loco collocatis) ponantur* 100, *decurtatis autẽ* 6 *finalibus pro* 100 *ponantur* 1000. *Absolutâ partis prop. inquisitione, ultima nota numerator est denominatoris* 10.

| | | |
|---|---|---|
| Vt in hoc | 217000000 | |
| | 2170. Log. | 152786 |
| | | 230258 |
| | | 383044 |
| | | 191522 |
| | Prox. major | 191528 (1473 |

6. Diff. proximè majoris & minoris est 68. Pone : 68 — 100 — 6. pars prop. tantùm 9. & hæc nota non est ultima rádicis integrandæ, sed numerator fractionis. Radix igitur integra est 14730 cum 9 decimis. Et tantundem etiam certe reperies per extractionem vulgarem.

Radicis sane 14730 quadr. est 216972900.
Radicis autẽ 14731 quadr. est 217002361. Confer (itaq; 217000000.

## V. Radicem Cubicam extrahere.

*Dati cubi logarithmus addatur logarithmo unitatis duplicato : Summæ triens est logarithmus Radicis quæsitæ. per Probl.* 3 *siquidem radix cubica & ejusdem radicis quadratus sunt duo medii proportionales inter ejusdẽ radicis Cubum & inter unitatẽ.*

| | | |
|---|---|---|
| Esto Cubus | 9261. Logar. ejus | 7677 |
| | 1. Log. duplic. | 1842068 |
| | Summa | 1849745 |
| | Triens | 616582 (Rad. 21. |

*Sed quid si numerus cubicus excedat numerum* 10000? *Tum sanè, ut in radicis quadratæ extractione fiat curtatio dati numeri & à summa logarithmorum ante tripartitionem prius detrahantur numeri logarithmici, nimirum*

230258

| | | |
|---|---|---|
| 230258 | | una, |
| 460517 | | dua, |
| 690775 | | tres, |
| 921034 | Si resecta sint finales | quatuor, |
| 1151293 | | quinq3, |
| 1381551 | | sex, |
| 1611809 | | septem. |

*Vel potius Regulâ compendiosiori: Si datus Numerus*

| | | | | |
|---|---|---|---|---|
| *sit curtatus notis finalibus* | *unâ* | *Adde curtati logarithmo (limitato, si opus est) numerum* | 1611810 | *Summæ Triens est logarithmus Radicis Cubicæ quæsitæ.* |
| | *duab.* | | 1381551 | |
| | *tribus* | | 1151293 | |
| | 4 | | 921034 | |
| | 5 | | 690775 | |
| | 6 | | 460517 | |
| | 7 | | 230258 | |

*Si sit curtatus finalibus* 8: *Solius Logarithmi limitati triens est log. Radicis.* *Exempla*

Datus esto numerus 531441.

5314. Logar. 63223. diff. à seq. 19.

Igitur pro abscisis p. prop. 8

Log. limit. 63215

1381551

1444766

Triens 481589 (81. R. quæsita.

Datus esto 74088000.

7408. Logar. 30001. Diff. à seq. 13.

Igitur pro abscis. p. prop. 10

Log. limit. 29991

921034

951025

Triens 317008 (420. R. quæsita.

Item

Item detur 45298483?.

4529. Logar. 79208. Diff. à seq. 22.

P. prop. pro abscisis 19

Log. limit. 79189

690775

769964

Triens 256655 (768. R. quæsita.

Detur item 5401847147?.

5401. Logar. 61600. Diff. à seq. 19

P. prop. pro 7 abscisis. 16

61584

230258

291842

Triens 97281 (3780. R. quã prox.

Deniq; detur 160989184000: curtãd° scilicet finalib°8.

1609. Logar. 182697. Diff. à seq. 62

P. prop. pro abscisis 55

Log. limit. 182642

Triens 60881 (5440. R. quæsita.

*Quod si Triens ille logarithmicus non inveniatur in Tabula exactus sed plus unitate differat, Numerus datus non fuit exactè cubicus, ac propterea logarithmi proximè majoris Numerus absolutus, tanquam Radicis notæ integrae, excerpatur, tum adhaesura fractio per differentias etiam acquiratur.*

Longè quidem plura, tam utilia quam jucunda, præstare possunt hi primæ Tabulæ logarithmi; Sed hæc ad familiares usus Manuali sufficiant.